Effluent Exceedance Violations on the NPDES Noncompliance Report (NNCR)

April 2024

Purpose

- Understand when effluent exceedance violations are generated

- Learn about the underlying rules supporting effluent exceedance violations on the quarterly NNCR

- Understand how to find more information

This presentation is an advanced training and assumes you have attended the Quarterly NNCR training. If not, you can view a recorded training on the ECHO Training page.

Agenda

1. Violation generation
2. Effluent exceedance violation terminology
3. Violation detections (category I versus II)
4. Violation resolutions
5. Data refresh and quarterly report criteria
6. Accessing the quarterly NNCR
7. Next steps and questions

What is an Effluent Exceedance Violation?

- NPDES permittees are required to periodically report their self-monitoring results on discharge monitoring reports (DMRs)

- Effluent exceedance violations are generated when a reported DMR value exceeds the limit value

    - Includes exceedances of base (permit) limits, permit modification limits, stay limits, and enforcement limits
    - Does not include DMRs where the reported value exceeds an alert limit or benchmark threshold

Effluent Exceedance Violation Code

There is one effluent exceedance violation code:

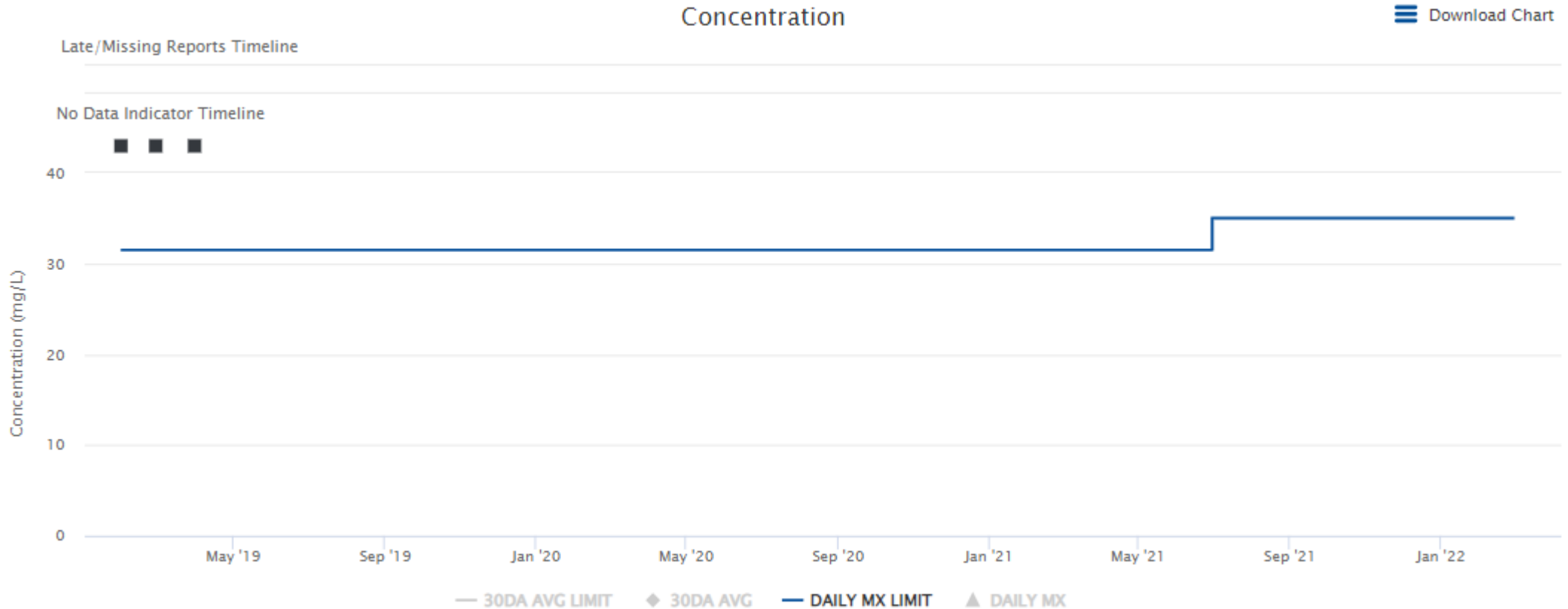- E90: DMR, Limited - Numeric Violation

Effluent Exceedance Violation Generation

Effluent exceedance violations are uniquely identified by the following set of data:

- NPDES ID
- Permitted Feature (outfall)
- Limit Set
- Monitoring Period End Date
- Parameter
- Monitoring Location
- Value Type (concentration or quantity)

Example from ICIS-NPDES: 00620 - Nitrogen, nitrate total [as N], Monitoring Location = 1, Season ID = 0

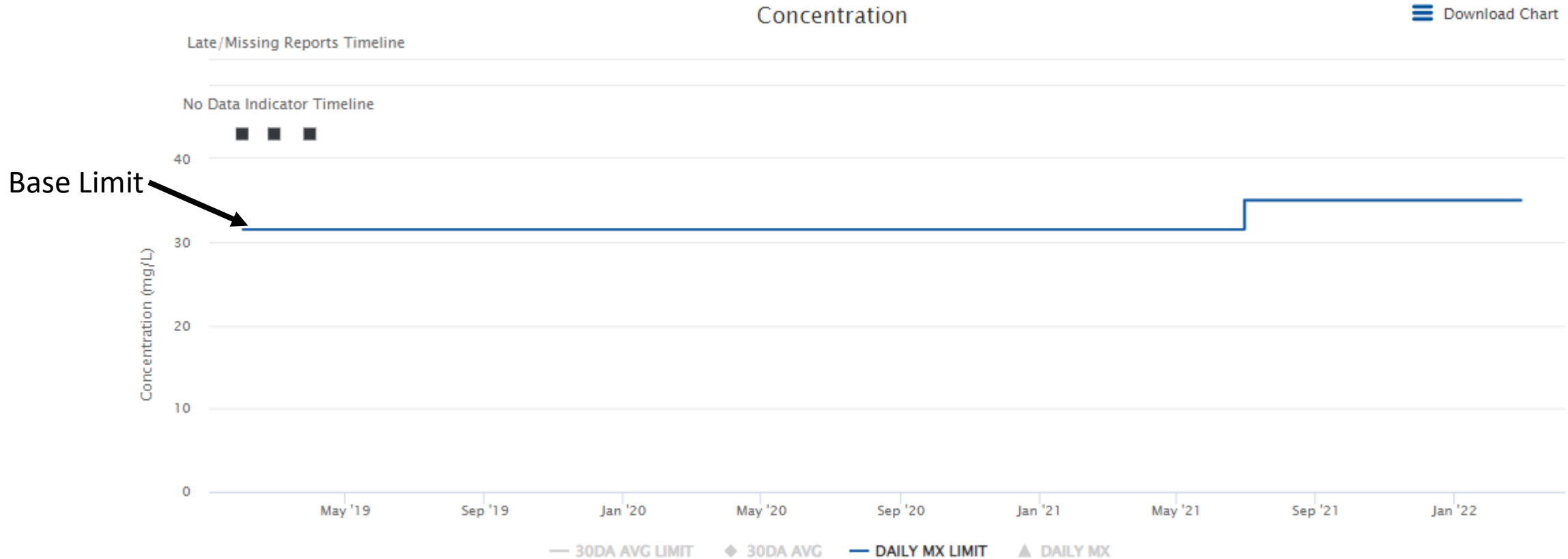| Limit Type	Start Date	End Date	Months	Units	C3	Statistical Base
Base Limit	11/1/2018	9/30/2023	All	mg/L	31.5	Daily Max
Enforcement Limit	6/1/2021	6/30/2024	All	mg/L	35.0	Daily Max

Example from ICIS-NPDES: 00620 - Nitrogen, nitrate total [as N], Monitoring Location = 1, Season ID = 0

Limit Type	Start Date	End Date	Months	Units	C3	Statistical Base
Base Limit	11/1/2018	9/30/2023	All	mg/L	31.5	Daily Max
Enforcement Limit	6/1/2021	6/30/2024	All	mg/L	35.0	Daily Max

Example limit from ICIS-NPDES: 00620 - Nitrogen, nitrate total [as N], Monitoring Location = 1, Season ID = 0

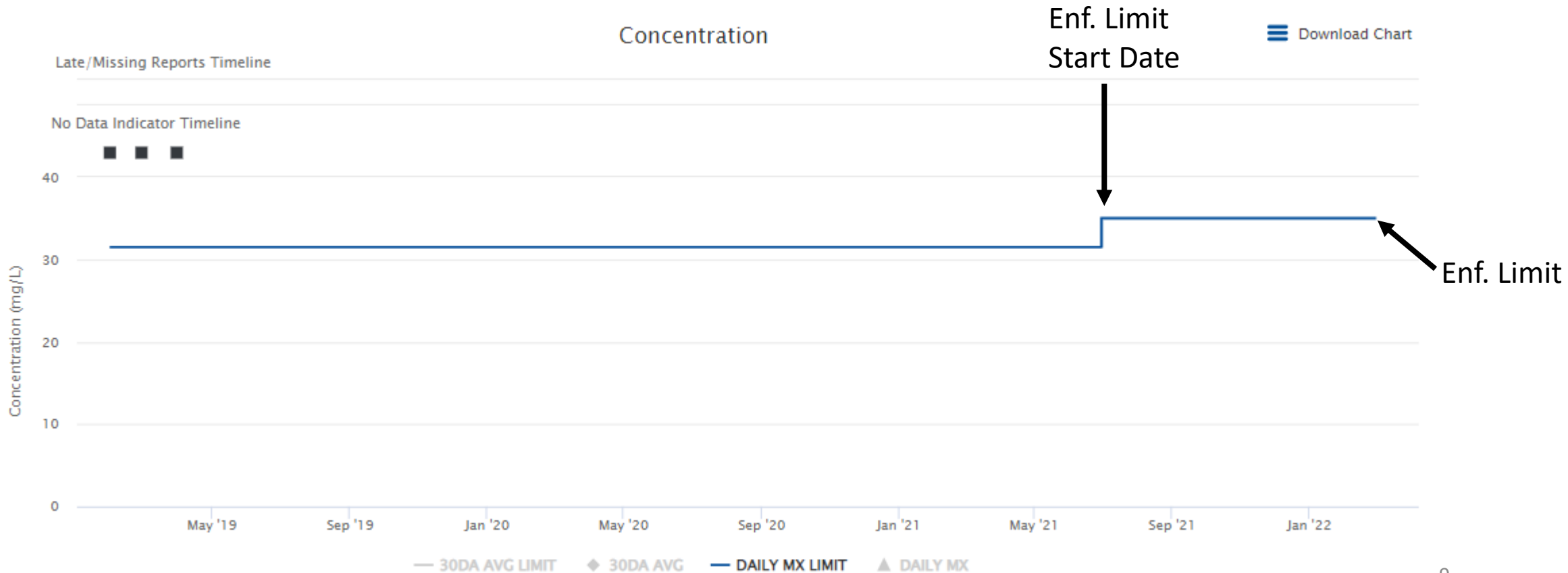| Limit Type	Start Date	End Date	Months	Units	C3	Statistical Base
Base Limit	11/1/2018	9/30/2023	All	mg/L	31.5	Daily Max
Enforcement Limit	6/1/2021	6/30/2024	All	mg/L	35.0	Daily Max

Example limit from ICIS-NPDES: 00620 - Nitrogen, nitrate total [as N], Monitoring Location = 1, Season ID = 0

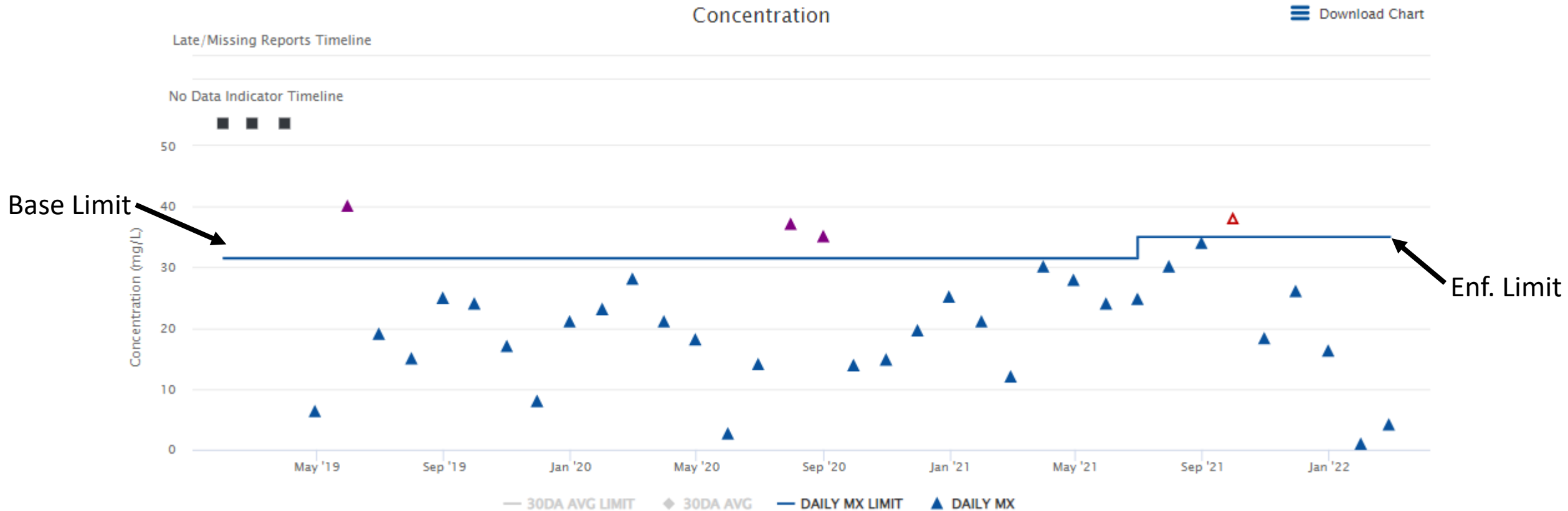| Limit Type	Start Date	End Date	Months	Units	C3	Statistical Base
Base Limit	11/1/2018	9/30/2023	All	mg/L	31.5	Daily Max
Enforcement Limit	6/1/2021	6/30/2024	All	mg/L	35.0	Daily Max

Example limit from ICIS-NPDES: 00620 - Nitrogen, nitrate total [as N], Monitoring Location = 1, Season ID = 0

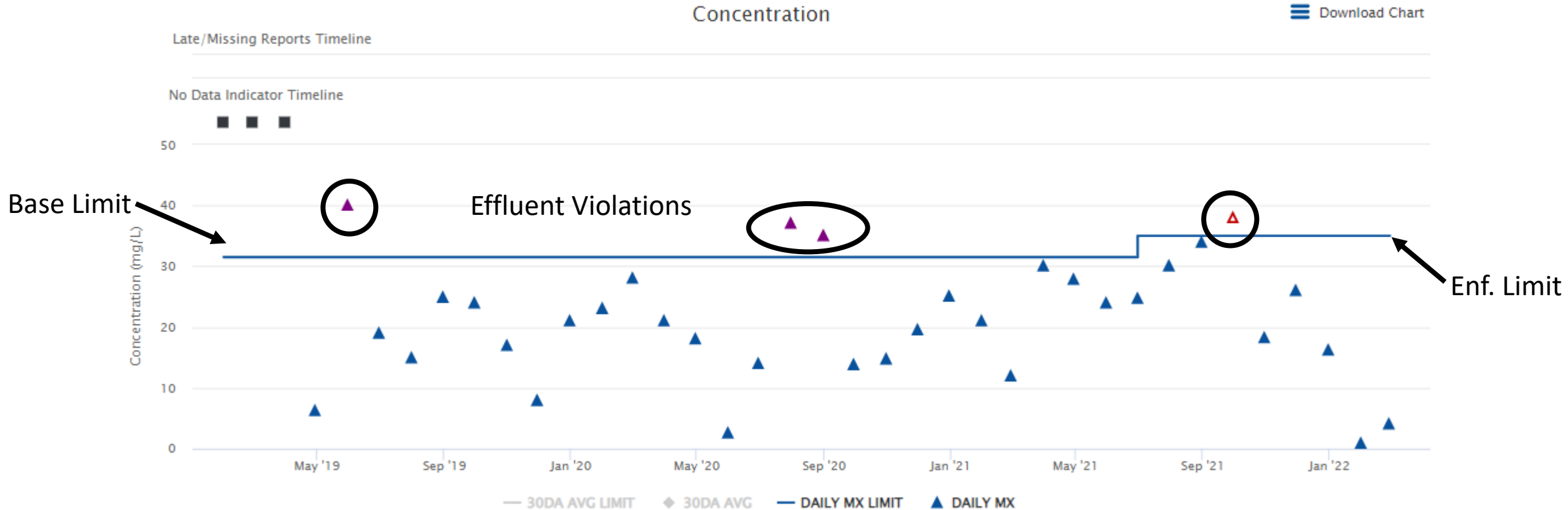| Limit Type	Start Date	End Date	Months	Units	C3	Statistical Base
Base Limit	11/1/2018	9/30/2023	All	mg/L	31.5	Daily Max
Enforcement Limit	6/1/2021	6/30/2024	All	mg/L	35.0	Daily Max

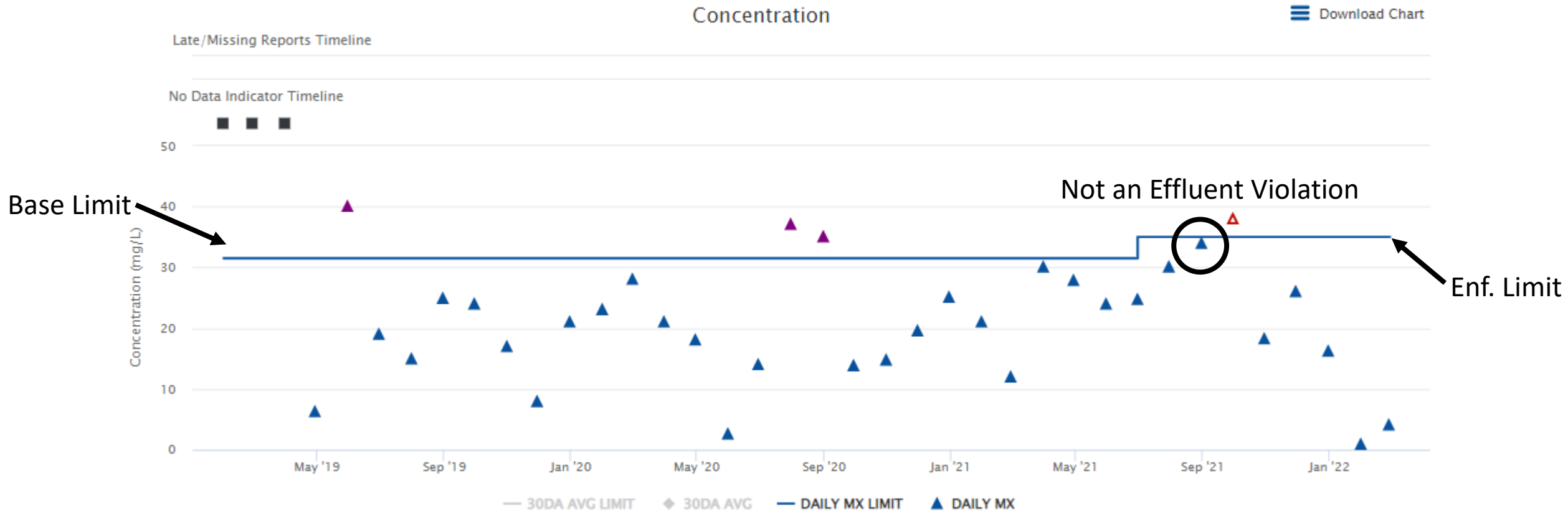Example limit from ICIS-NPDES: 00620 - Nitrogen, nitrate total [as N], Monitoring Location = 1, Season ID = 0

Limit Type	Start Date	End Date	Months	Units	C3	Statistical Base
Base Limit	11/1/2018	9/30/2023	All	mg/L	31.5	Daily Max
Enforcement Limit	6/1/2021	6/30/2024	All	mg/L	35.0	Daily Max

Percent Exceedance

- The database calculates a percentage the DMR value exceeded the limit, rounded to the nearest whole number

- Effluent exceedance violations can have 0 percent exceedance
  - E.g., Limit value < 1 and DMR value = 1

- There are percent exceedances in the database that are not the true values (e.g., 99,999 and 2,147,483,650) and the NNCR displays "Limit Violation" in place of the numeric value
  - E.g., Limit value = 1 and DMR value > 5

Pollutant Groups

Group 1

- Oxygen Demand
- Solids
- Nutrients
- Detergents and Oils
- Minerals
- Metals
  - Aluminum
  - Cobalt
  - Iron
  - Vanadium

Group 2

- Metals (all forms)
  - Other metals not specifically listed under Group I
- Inorganic
  - Cyanide
  - Total Residual Chlorine
- Organics
  - All organics are Group 2 except those specifically listed under Group 1

Statistical Base Types

1. Monthly Average
   - Inclusive of statistical base codes that include monthly or 30-day or daily, geometric or arithmetic, and average or mean in the description

2. Non-monthly Average
   - All maximum, total, and averages (other than monthly average) statistical base codes

3. Minimum

Technical Review Criteria (TRC)

- Establishes a threshold for effluent exceedance violations that equal or exceed the limit by 20 or 40 percent in any two or more months in a 6-month period at the same permitted feature, monitoring location, parameter, and statistical base type.
  - Group I Pollutant TRC = 1.4
  - Group II Pollutants TRC = 1.2

- Parameters without a pollutant group and/or minimum limits are not evaluated for technical review criteria.

- Instead of using "TRC" in the NNCR, these violations include the description "magnitude."

Technical Review Criteria (TRC)

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group 1 Pollutant (40%)

Monthly Averages

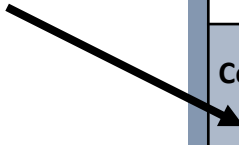| DMR Value Type Limit Type	6-month Review Period					
	Month 1 Violation (% Over Limit) Detection Code Resolution Code	**Month 2** Violation (% Over Limit) Detection Code Resolution Code	**Month 3** Violation (% Over Limit) Detection Code Resolution Code	**Month 4** Violation (% Over Limit) Detection Code Resolution Code	**Month 5** Violation (% Over Limit) Detection Code Resolution Code	**Month 6** Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Violation		Violation			
Quantity 2 Non-monthly Average						
Concentration 1 Monthly Average						
Concentration 2 Non-monthly Average						
Concentration 3 Minimum						

Chronic Criteria

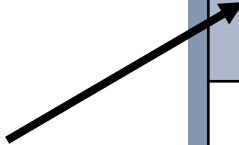- Establishes a threshold for effluent exceedance violations that exceed the limit by any amount in any four or more months during a 6-month period at the same permitted feature, monitoring location, parameter, and statistical base type.

- Parameters without a pollutant group and/or minimum limits are not evaluated for chronic criteria.

Chronic Criteria

The count of months does not distinguish between quantity or concentration limits

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group 1 Pollutant (40%)

DMR Value Type Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Violation		Violation		Violation	
Quantity 2 Non-monthly Average						
Concentration 1 Monthly Average				Violation		
Concentration 2 Non-monthly Average						
Concentration 3 Minimum						

Category I versus II

Violation Category

40 CFR §123.45 requires every violation to be designated as a Category I or II violation. The regulation includes specific criteria for Category I violations. All violations that do not meet Category I criteria must be designated Category II.

For effluent exceedance violations, there are four criteria for Category I:

- Any exceedance of an enforcement limit

- TRC exceedances of monthly average limits for group I and II pollutants

- Chronic exceedances of monthly average limits for group I and II pollutants

- Any violation or group of violations, which in the discretion of the State Director or EPA, are considered to be of concern

Violation Detection

Effluent exceedances violations have 9 possible violation detections:

Detection Code	Detection Description	Violation Category
E1A	Effluent – Magnitude Monthly Average	1
E1B	Effluent – Chronic Monthly Average	1
E2C	Effluent – Monthly Average	2
E2D	Effluent – Magnitude Non-monthly Average	2
E2E	Effluent – Chronic Non-monthly Average	2
E2F	Effluent – Non-monthly Average	2
E2G	Effluent – Minimum	2
E1H	Effluent – Enforcement	1
M1	Category I - Manual	1

Category I Examples

NNCR Interpretation

For effluent exceedance violations, there are four criteria for Category I:

- **Any exceedance of an enforcement limit**

- TRC exceedances of monthly average limits for group I and II pollutants

- Chronic exceedances of monthly average limits for group I and II pollutants

- Any violation or group of violations, which in the discretion of the Director or EPA, are considered to be of concern

(E1H) Effluent – Enforcement: Example 1

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group 0 Pollutant

DMR Value Type / Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Quantity 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 1 Monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	Effluent Violation (8%)	No Violation
Concentration 3 Minimum	No Violation	No Violation	Effluent Violation (65%)	No Violation	No Violation	No Violation

(E1H) Effluent – Enforcement: Example 1

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group 0 Pollutant

DMR Value Type / Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average						
Quantity 2 Non-monthly Average						
Concentration 1 Monthly Average						
Concentration 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	Effluent Violation (8%) **E1H**	No Violation
Concentration 3 Minimum	No Violation	No Violation	Effluent Violation (65%) **E1H**	No Violation	No Violation	No Violation

NNCR Interpretation

For effluent exceedance violations, there are four criteria for Category I:

- Any exceedance of an enforcement limit
- **TRC exceedances of monthly average limits for group I and II pollutants**
- Chronic exceedances of monthly average limits for group I and II pollutants
- Any violation or group of violations, which in the discretion of the Director or EPA, are considered to be of concern

(E1A) Effluent – Magnitude Monthly Average: Example 1

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (55%)	Effluent Violation (65%)	No Violation	No Violation	Effluent Violation (43%)	No Violation
Quantity 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 1 Monthly Average	Effluent Violation (10%)	Effluent Violation (42%)	No Violation	Effluent Violation (1%)	No Violation	Effluent Violation (50%)
Concentration 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 3 Minimum	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation

(E1A) Effluent – Magnitude Monthly Average: Example 1

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (55%) **E1A**	Effluent Violation (65%) **E1A**	No Violation	No Violation	Effluent Violation (43%) **E1A**	No Violation
Quantity 2 Non-monthly Average						
Concentration 1 Monthly Average	Effluent Violation (10%) E1B	Effluent Violation (42%) **E1A**	No Violation	Effluent Violation (1%) E1B	No Violation	Effluent Violation (50%) **E1A**
Concentration 2 Non-monthly Average						
Concentration 3 Minimum						

NNCR Interpretation

For effluent exceedance violations, there are four criteria for Category I:

- Any exceedance of an enforcement limit
- TRC exceedances of monthly average limits for group I and II pollutants
- **Chronic exceedances of monthly average limits for group I and II pollutants**
- Any violation or group of violations, which in the discretion of the Director or EPA, are considered to be of concern

(E1B) Effluent – Chronic Monthly Average: Example 1

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (5%)	No Violation	No Violation	Effluent Violation (12%)	No Violation	No Violation
Quantity 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 1 Monthly Average	No Violation	Effluent Violation (32%)	No Violation	No Violation	Effluent Violation (11%)	No Violation
Concentration 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 3 Minimum	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation

(E1B) Effluent – Chronic Monthly Average: Example 1

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	6-month Review Period					
	Month 1 Violation (% Over Limit) Detection Code Resolution Code	**Month 2** Violation (% Over Limit) Detection Code Resolution Code	**Month 3** Violation (% Over Limit) Detection Code Resolution Code	**Month 4** Violation (% Over Limit) Detection Code Resolution Code	**Month 5** Violation (% Over Limit) Detection Code Resolution Code	**Month 6** Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (5%) **E1B**	No Violation	No Violation	Effluent Violation (12%) **E1B**	No Violation	No Violation
Quantity 2 Non-monthly Average						
Concentration 1 Monthly Average	No Violation	Effluent Violation (32%) **E1B**	No Violation	No Violation	Effluent Violation (11%) **E1B**	No Violation
Concentration 2 Non-monthly Average						
Concentration 3 Minimum						

NNCR Interpretation

For effluent exceedance violations, there are four criteria for Category I:

- Any exceedance of an enforcement limit
- TRC exceedances of monthly average limits for group I and II pollutants
- Chronic exceedances of monthly average limits for group I and II pollutants
- **Any violation or group of violations, which in the discretion of the Director or EPA, are considered to be of concern**

Manual Detection

Category I – Manual

- Violation Category = 1

- Detection Date = Manually entered by the regulatory authority

Category II Examples

NNCR Interpretation

Effluent exceedance violations that **<u>do not</u>** meet Category I criteria:

- **Effluent violations of monthly average limits that do not meet TRC or chronic criteria**
- Effluent violations of non-monthly averages
- Effluent violations of minimum limits

(E2C) Effluent – Monthly Average: Example 1

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (50%)	Effluent Violation (0%)	No Violation	No Violation	No Violation	No Violation
Quantity 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 1 Monthly Average	Effluent Violation (45%)	Effluent Violation (12%)	No Violation	No Violation	Effluent Violation (2%)	No Violation
Concentration 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 3 Minimum	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation

(E2C) Effluent – Monthly Average: Example 1

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (50%)	Effluent Violation (0%)	No Violation	No Violation	No Violation	No Violation
Quantity 2 Non-monthly Average						
Concentration 1 Monthly Average	Effluent Violation (45%)	Effluent Violation (12%)	No Violation	No Violation	Effluent Violation (2%)	No Violation
Concentration 2 Non-monthly Average						
Concentration 3 Minimum						

(E2C) Effluent – Monthly Average: Example 1

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (50%) **E2C**	Effluent Violation (0%) **E2C**	No Violation	No Violation	No Violation	No Violation
Quantity 2 Non-monthly Average						
Concentration 1 Monthly Average	Effluent Violation (45%) **E2C**	Effluent Violation (12%) **E2C**	No Violation	No Violation	Effluent Violation (2%) **E2C**	No Violation
Concentration 2 Non-monthly Average						
Concentration 3 Minimum						

NNCR Interpretation

Effluent exceedance violations that **<u>do not</u>** meet Category I criteria:

- Effluent violations of monthly average limits that do not meet TRC or chronic criteria
- **Effluent violations of non-monthly averages**
- Effluent violations of minimum limits

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

When a parameter has both a monthly average and non-monthly average limit, the violations are only detected for non-monthly TRC and chronic if the monthly average was also exceeded during the same monitoring period.

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (6%) E2C	No Violation	Effluent Violation (16%) E2C	No Violation	No Violation	No Violation
Quantity 2 Non-monthly Average	Effluent Violation (4%) E2F	No Violation	Effluent Violation (50%)	Effluent Violation (2%) E2F	No Violation	No Violation
Concentration 1 Monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	Effluent Violation (1%) E2C
Concentration 2 Non-monthly Average	Effluent Violation (2%) E2F	No Violation	Effluent Violation (20%) E2F	Effluent Violation (1%) E2F	No Violation	Effluent Violation (44%)
Concentration 3 Minimum	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

When a parameter has both a monthly average and non-monthly average limit, the violations are only detected for non-monthly TRC and chronic if the monthly average was also exceeded during the same monitoring period.

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	Month 1 — Violation (% Over Limit) Detection Code Resolution Code	Month 2 — Violation (% Over Limit) Detection Code Resolution Code	Month 3 — Violation (% Over Limit) Detection Code Resolution Code	Month 4 — Violation (% Over Limit) Detection Code Resolution Code	Month 5 — Violation (% Over Limit) Detection Code Resolution Code	Month 6 — Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (6%) E2C	No Violation	Effluent Violation (16%) E2C	No Violation	No Violation	No Violation
Quantity 2 Non-monthly Average	Effluent Violation (4%) E2F	No Violation	Effluent Violation (50%)	Effluent Violation (2%) E2F	No Violation	No Violation
Concentration 1 Monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	Effluent Violation (1%) E2C
Concentration 2 Non-monthly Average	Effluent Violation (2%) E2F	No Violation	Effluent Violation (20%) E2F	Effluent Violation (1%) E2F	No Violation	Effluent Violation (44%)
Concentration 3 Minimum						

6-month Review Period

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

When a parameter has both a monthly average and non-monthly average limit, the violations are only detected for non-monthly TRC and chronic if the monthly average was also exceeded during the same monitoring period.

(E2D) Effluent – Magnitude Non-Monthly Average: Example 1

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6
	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code
Quantity 1 Monthly Average	Effluent Violation (6%) E2C	No Violation	Effluent Violation (16%) E2C	No Violation	No Violation	No Violation
Quantity 2 Non-monthly Average	Effluent Violation (4%) E2F	No Violation	Effluent Violation (50%) **E2D**	Effluent Violation (2%) E2F	No Violation	No Violation
Concentration 1 Monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	Effluent Violation (1%) E2C
Concentration 2 Non-monthly Average	Effluent Violation (2%) E2F	No Violation	Effluent Violation (20%) E2F	Effluent Violation (1%) E2F	No Violation	Effluent Violation (44%) **E2D**
Concentration 3 Minimum						

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

When a parameter has both a monthly average and non-monthly average limit, the violations are only detected for non-monthly TRC and chronic if the monthly average was also exceeded during the same monitoring period.

(E2E) Effluent – Chronic Non-Monthly Average: Example 1

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (6%) E1B	Effluent Violation (1%) E1B	No Violation	No Violation	No Violation	Effluent Violation (20%) E1B
Quantity 2 Non-monthly Average	Effluent Violation (14%)	Effluent Violation (2%)	No Violation	Effluent Violation (2%)	No Violation	Effluent Violation (25%)
Concentration 1 Monthly Average	No Violation	No Violation	No Violation	Effluent Violation (8%) E1B	No Violation	No Violation
Concentration 2 Non-monthly Average	No Violation	Effluent Violation (8%)	No Violation	Effluent Violation (8%)	No Violation	No Violation
Concentration 3 Minimum	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation

(E2E) Effluent – Chronic Non-Monthly Average: Example 1

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

When a parameter has both a monthly average and non-monthly average limit, the violations are only detected for non-monthly TRC and chronic if the monthly average was also exceeded during the same monitoring period.

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	6-month Review Period					
	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (6%) E1B	Effluent Violation (1%) E1B	No Violation	No Violation	No Violation	Effluent Violation (20%) E1B
Quantity 2 Non-monthly Average	Effluent Violation (14%)	Effluent Violation (2%)	No Violation	Effluent Violation (2%)	No Violation	Effluent Violation (25%)
Concentration 1 Monthly Average	No Violation	No Violation	No Violation	Effluent Violation (8%) E1B	No Violation	No Violation
Concentration 2 Non-monthly Average	No Violation	Effluent Violation (8%)	No Violation	Effluent Violation (8%)	No Violation	No Violation
Concentration 3 Minimum						

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

When a parameter has both a monthly average and non-monthly average limit, the violations are only detected for non-monthly TRC and chronic if the monthly average was also exceeded during the same monitoring period.

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	Month 1 — Violation (% Over Limit) Detection Code Resolution Code	Month 2 — Violation (% Over Limit) Detection Code Resolution Code	Month 3 — Violation (% Over Limit) Detection Code Resolution Code	Month 4 — Violation (% Over Limit) Detection Code Resolution Code	Month 5 — Violation (% Over Limit) Detection Code Resolution Code	Month 6 — Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (6%) E1B	Effluent Violation (1%) E1B	No Violation	No Violation	No Violation	Effluent Violation (20%) E1B
Quantity 2 Non-monthly Average	Effluent Violation (14%) **E2E**	Effluent Violation (2%) **E2E**	No Violation	Effluent Violation (2%) **E2E**	No Violation	Effluent Violation (25%) **E2E**
Concentration 1 Monthly Average	No Violation	No Violation	No Violation	Effluent Violation (8%) E1B	No Violation	No Violation
Concentration 2 Non-monthly Average	No Violation	Effluent Violation (8%) **E2E**	No Violation	Effluent Violation (8%) **E2E**	No Violation	No Violation
Concentration 3 Minimum						

6-month Review Period

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

When a parameter has both a monthly average and non-monthly average limit, the violations are only detected for non-monthly TRC and chronic if the monthly average was also exceeded during the same monitoring period.

(E2F) Effluent – Non-Monthly Average: Example 1

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (50%) E2C	No Violation	Effluent Violation (10%) E2C	No Violation	No Violation	No Violation
Quantity 2 Non-monthly Average	Effluent Violation (22%) E2F	Effluent Violation (2%) E2F	Effluent Violation (20%) E2F	Effluent Violation (1%) E2F	Effluent Violation (1%) E2F	Effluent Violation (2%) E2F
Concentration 1 Monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	Effluent Violation (1%) E2C
Concentration 2 Non-monthly Average	Effluent Violation (25%) E2F	Effluent Violation (2%) E2F	Effluent Violation (20%) E2F	Effluent Violation (1%) E2F	Effluent Violation (6%) E2F	Effluent Violation (10%) E2F
Concentration 3 Minimum	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

When a parameter has both a monthly average and non-monthly average limit, the violations are only detected for non-monthly TRC and chronic if the monthly average was also exceeded during the same monitoring period.

(E2F) Effluent – Non-Monthly Average: Example 1

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	Month 1 Violation (% Over Limit) Detection Code Resolution Code	Month 2 Violation (% Over Limit) Detection Code Resolution Code	Month 3 Violation (% Over Limit) Detection Code Resolution Code	Month 4 Violation (% Over Limit) Detection Code Resolution Code	Month 5 Violation (% Over Limit) Detection Code Resolution Code	Month 6 Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (50%) E2C	No Violation	Effluent Violation (10%) E2C	No Violation	No Violation	No Violation
Quantity 2 Non-monthly Average	Effluent Violation (22%) **E2F**	Effluent Violation (2%) **E2F**	Effluent Violation (20%) **E2F**	Effluent Violation (1%) **E2F**	Effluent Violation (1%) **E2F**	Effluent Violation (2%) **E2F**
Concentration 1 Monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	Effluent Violation (1%) E2C
Concentration 2 Non-monthly Average	Effluent Violation (25%) **E2F**	Effluent Violation (2%) **E2F**	Effluent Violation (20%) **E2F**	Effluent Violation (1%) **E2F**	Effluent Violation (6%) **E2F**	Effluent Violation (10%) **E2F**
Concentration 3 Minimum						

NNCR Interpretation

Effluent exceedance violations that **<u>do not</u>** meet Category I criteria:

- Effluent violations of monthly average limits that do not meet TRC or chronic criteria
- Effluent violations of non-monthly averages
- **Effluent violations of minimum limits**

(E2G) Effluent – Minimum: Example 1

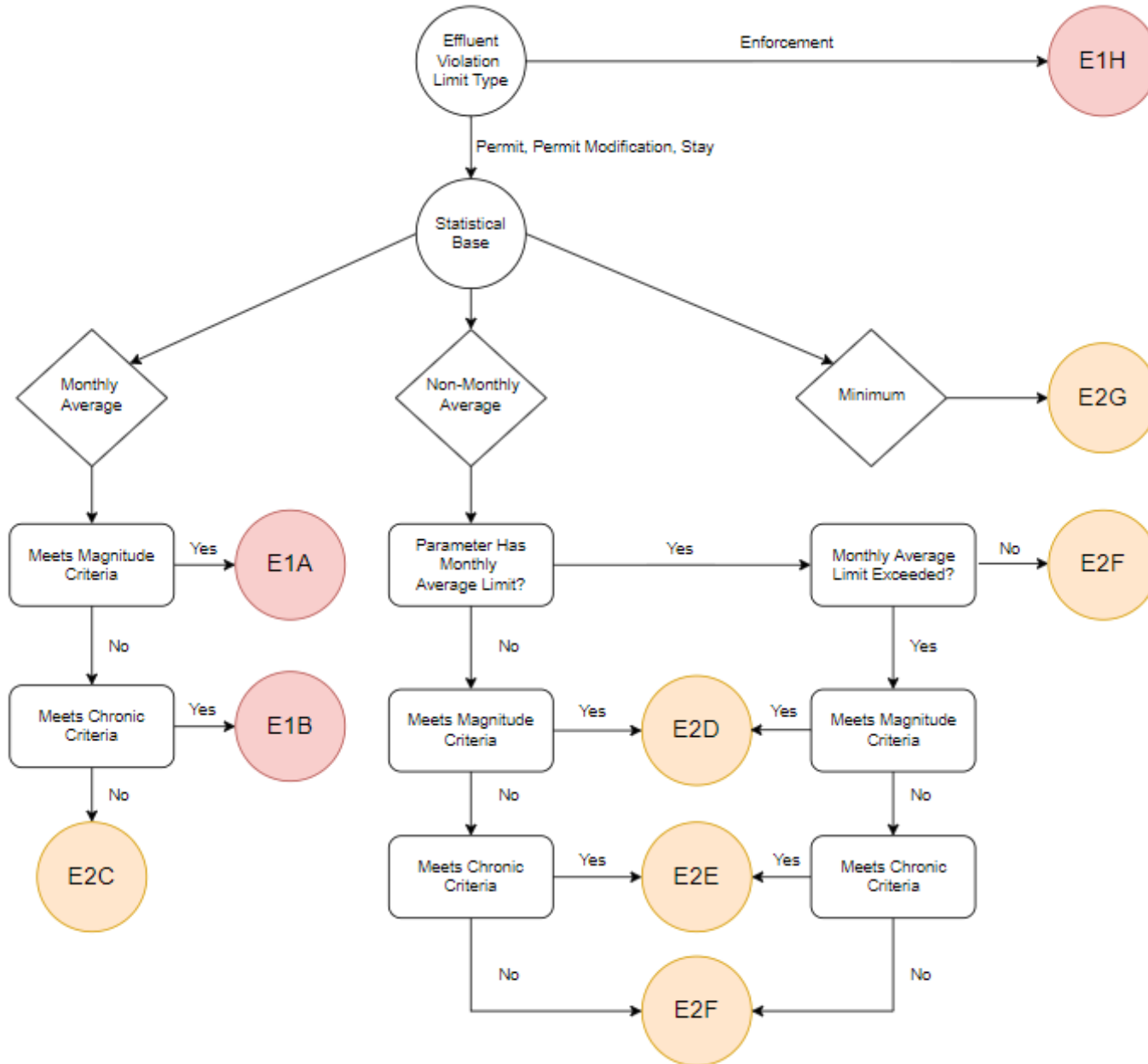| Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group 0 Pollutant

DMR Value Type / Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Quantity 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 1 Monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 3 Minimum	Effluent Violation (80%)	No Violation	Effluent Violation (22%)	Effluent Violation (5%)	Effluent Violation (5%)	Effluent Violation (10%)

(E2G) Effluent – Minimum: Example 1

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group 0 Pollutant

DMR Value Type / Limit Type	Month 1 — Violation (% Over Limit) Detection Code Resolution Code	Month 2 — Violation (% Over Limit) Detection Code Resolution Code	Month 3 — Violation (% Over Limit) Detection Code Resolution Code	Month 4 — Violation (% Over Limit) Detection Code Resolution Code	Month 5 — Violation (% Over Limit) Detection Code Resolution Code	Month 6 — Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average						
Quantity 2 Non-monthly Average						
Concentration 1 Monthly Average						
Concentration 2 Non-monthly Average						
Concentration 3 Minimum	Effluent Violation (80%) **E2G**	No Violation	Effluent Violation (22%) **E2G**	Effluent Violation (5%) **E2G**	Effluent Violation (5%) **E2G**	Effluent Violation (10%) **E2G**

Effluent Exceedance Limit Detection Flow Chart

For each effluent exceedance limit violation for a NPDES ID, permitted feature, monitoring location, and parameter, follow the steps below to determine the violation's detection code and order the violations are evaluated:

Detection Code	Detection Description	Violation Category
E1A	Effluent – Magnitude Monthly Average	1
E1B	Effluent – Chronic Monthly Average	1
E2C	Effluent – Monthly Average	2
E2D	Effluent – Magnitude Non-monthly Average	2
E2E	Effluent – Chronic Non-monthly Average	2
E2F	Effluent – Non-monthly Average	2
E2G	Effluent – Minimum	2
E1H	Effluent – Enforcement	1

Violation Resolution

Violation Resolution Hierarchy

- Each violation can only have 1 violation status
- There is a hierarchy of violation statuses:
    1. Resolved
    2. Resolved Pending
    3. Unresolved

The *first* resolution that applies to the highest status in the hierarchy is the resolution description and date associated with the violation.

Violation Resolution Hierarchy

Effluent exceedance violations have 6 possible violation resolutions:

Resolution Code	Resolution Description	Violation Status
RP1	Formal Enforcement with Compliance Schedule	Resolved Pending
RP2	Resolved Pending - Manual	Resolved Pending
R2	Effluent - 3 Months Clean	Resolved
R3	Closure of Formal Enforcement	Resolved
R5	Resolved – Manual	Resolved
R6	Permit Terminated	Resolved

Manual Resolutions

Resolved Pending - Manual

- Violation Status = Resolved Pending

- Resolution Date = Manually entered by the regulatory authority

Resolved - Manual

- Violation Status = Resolved

- Resolution Date = Manually entered by the regulatory authority

Effluent - 3 Months Clean

- Violation Status = Resolved
- Resolution Date = 6-month window end date when the 3 months clean criteria first applies
- Applies when DMR data for the permitted feature, parameter, monitoring location, and statistical base type have not had any violations, effluent or DMR reporting, in the last three months of the 6-month review period and numeric DMR data or NODI B or Q was reported.
    - Caveat: if data is reported late and does not contain effluent exceedances, 3 months clean criteria can still apply
- This resolves violations from within and before the 6-month review period.

(R2) Effluent – 3 Months Clean: Example 1

Code	Description
R2	Effluent – 3 Months Clean

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
DMR Value Type / Limit Type	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (50%) E1A R2	Effluent Violation (3%) E2C R2	Effluent Violation (10%) E2C R2	No Violation	No Violation	No Violation
Quantity 2 Non-monthly Average						
Concentration 1 Monthly Average	Effluent Violation (4%) E2C R2	No Violation	Effluent Violation (40%) E1A R2	No Violation	No Violation	No Violation
Concentration 2 Non-monthly Average						
Concentration 3 Minimum						

(R2) Effluent – 3 Months Clean: Example 2

Code	Description
R2	Effluent – 3 Months Clean

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
DMR Value Type / Limit Type	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (50%) E1A R2	Effluent Violation (3%) E2C R2	Effluent Violation (10%) E2C R2	No Violation	NODI B	No Violation
Quantity 2 Non-monthly Average						
Concentration 1 Monthly Average	No Violation	No Violation	Effluent Violation (40%) E1A R2	No Violation	No Violation	No Violation
Concentration 2 Non-monthly Average				Effluent Violation (10%) E2F		NODI E
Concentration 3 Minimum						

(R2) Effluent – 3 Months Clean: Example 3

Code	Description
R2	Effluent – 3 Months Clean

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

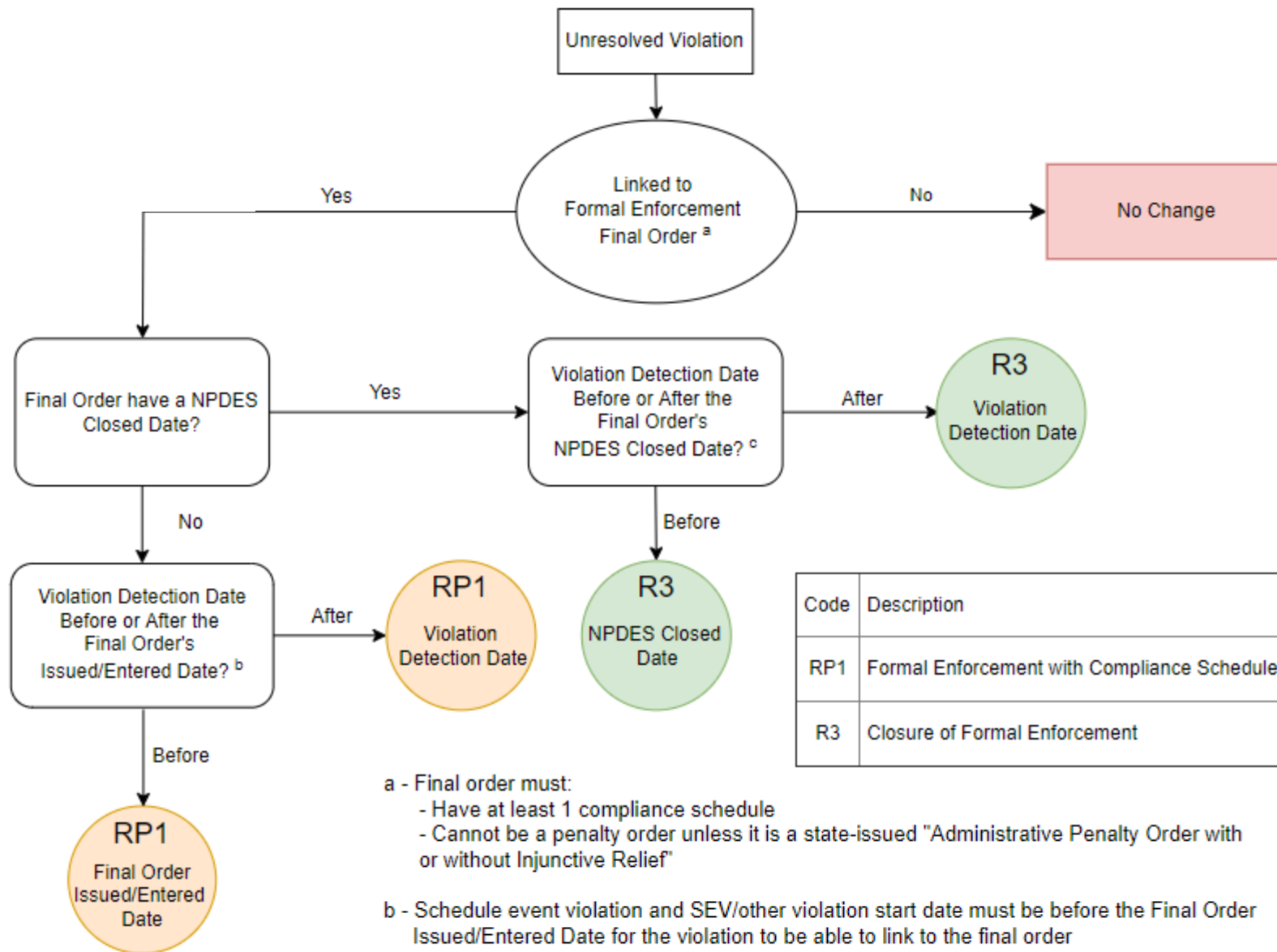| DMR Value Type / Limit Type	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code
Quantity 1 Monthly Average	Effluent Violation (64%) E1A R2	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Quantity 2 Non-monthly Average									
Concentration 1 Monthly Average	No Violation	No Violation	No Violation	Effluent Violation (40%) E1A R2	No Violation	Effluent Violation (12%) E1A R2	No Violation	No Violation	No Violation
Concentration 2 Non-monthly Average									
Concentration 3 Minimum									

Formal Enforcement w/Comp. Schedule

- Violation Status = Resolved Pending
- Resolution Date
  - If the violation detection date is <u>before</u> the final order's issued/entered date, the resolution date = issued/entered date
  - If the violation detection date is <u>after</u> the final order's issued/entered date, the resolution date is set to the violation's detection date
- Applies when an effluent exceedance violation is linked to a
  - Formal enforcement action non-penalty final order or a state-issued Administrative Penalty Order with or without Injunctive Relief and a compliance schedule, and
  - The final order *does not have* a NPDES Closed Date

Closure of Formal Enforcement

- Violation Status = Resolved
- Resolution Date
  - If the violation detection date is <u>before</u> the final order's NPDES Closed Date, the resolution date = NPDES closed date
  - If the violation detection date is <u>after</u> the final order's NPDES Closed Date, the resolution date is set to the violation's detection date
- Applies when an effluent exceedance violation is linked to a
  - Formal enforcement action non-penalty final order or a state-issued Administrative Penalty Order with or without Injunctive Relief and a compliance schedule, and
  - The final order *has* a NPDES Closed Date

Resolved Pending and Resolved Status Flow Chart

Unresolved Violation

Linked to Formal Enforcement Final Order [a]

Yes → No

No → No Change

Yes path:

Final Order have a NPDES Closed Date?

- Yes → Violation Detection Date Before or After the Final Order's NPDES Closed Date? [c]
  - After → R3 Violation Detection Date
  - Before → R3 NPDES Closed Date

- No → Violation Detection Date Before or After the Final Order's Issued/Entered Date? [b]
  - After → RP1 Violation Detection Date
  - Before → RP1 Final Order Issued/Entered Date

Code	Description
RP1	Formal Enforcement with Compliance Schedule
R3	Closure of Formal Enforcement

a - Final order must:
   - Have at least 1 compliance schedule
   - Cannot be a penalty order unless it is a state-issued "Administrative Penalty Order with or without Injunctive Relief"

b - Schedule event violation and SEV/other violation start date must be before the Final Order Issued/Entered Date for the violation to be able to link to the final order

c - DMR violation date must be before the NPDES Closed Date for the violation's status to change with the linkage to the enforcement action

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Permit Terminated

- Violation Status = Resolved

- Resolution Date = Permit Termination Date

- Violations resolved by a permit termination overrule manual resolutions, even if the manual resolution date is after the permit termination date.

Note: violations with this status can still be included in enforcement actions

Data Refresh

Data Refresh

- Each weekend, the effluent violations are evaluated in 6-month windows with monitoring period end dates from July 2020 to present, shifting the 6-month window forward one month at a time.

- Once a violation meets Category 1 criteria, it will not "downgrade" to a Category 2 in a subsequent 6-month window.

- Effluent violations within 6-month windows can fluctuate between a resolved and unresolved status with new data in subsequent 6-month windows.

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

Code	Description
R2	Effluent – 3 Months Clean

Moving 6-month Windows

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code
Quantity 1 Monthly Average	Effluent Violation (64%) E1A	No Violation	No Violation	No Violation	No Violation	No Violation			
Quantity 2 Non-monthly Average									
Concentration 1 Monthly Average	No Violation	No Violation	No Violation	Effluent Violation (40%) E1A	No Violation	No Violation			
Concentration 2 Non-monthly Average									
Concentration 3 Minimum									

(R2) Effluent – 3 Months Clean: Example 7

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

Code	Description
R2	Effluent – 3 Months Clean

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code
Quantity 1 Monthly Average	Effluent Violation (64%) E1A R2	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation		
Quantity 2 Non-monthly Average									
Concentration 1 Monthly Average	No Violation	No Violation	No Violation	Effluent Violation (40%) E1A R2	No Violation	No Violation	No Violation		
Concentration 2 Non-monthly Average									
Concentration 3 Minimum									

(R2) Effluent – 3 Months Clean: Example 7

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

Code	Description
R2	Effluent – 3 Months Clean

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9
	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code	Violation (% Over Limit) / Detection Code / Resolution Code
Quantity 1 Monthly Average	Effluent Violation (64%) E1A R2	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation	
Quantity 2 Non-monthly Average									
Concentration 1 Monthly Average	No Violation	No Violation	No Violation	Effluent Violation (40%) E1A	No Violation	No Violation	No Violation	Effluent Violation (5%) E2C	
Concentration 2 Non-monthly Average									
Concentration 3 Minimum									

(R2) Effluent – 3 Months Clean: Example 7

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

Code	Description
R2	Effluent – 3 Months Clean

DMR Value Type / Limit Type	Month 1 — Violation (% Over Limit) Detection Code Resolution Code	Month 2 — Violation (% Over Limit) Detection Code Resolution Code	Month 3 — Violation (% Over Limit) Detection Code Resolution Code	Month 4 — Violation (% Over Limit) Detection Code Resolution Code	Month 5 — Violation (% Over Limit) Detection Code Resolution Code	Month 6 — Violation (% Over Limit) Detection Code Resolution Code	Month 7 — Violation (% Over Limit) Detection Code Resolution Code	Month 8 — Violation (% Over Limit) Detection Code Resolution Code	Month 9 — Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (64%) E1A R2	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Quantity 2 Non-monthly Average									
Concentration 1 Monthly Average	No Violation	No Violation	No Violation	Effluent Violation (40%) E1A	No Violation	No Violation	No Violation	Effluent Violation (5%) E2C	Effluent Violation (15%) E2C
Concentration 2 Non-monthly Average									
Concentration 3 Minimum									

Effluent Violations by Quarter

Effluent exceedance violations will be included if it meets any of the following criteria:

- Violation end date is within the quarter (new violation)

- Violation has an unresolved status and the violation end date before the end of the quarter (ongoing violation)

- Violation has a resolved pending status and the violation end date is before the end of the quarter (resolved pending)

- Violation has a resolved status and a resolution date during the quarter (resolved)

Accessing the NNCR

Accessing the NNCR

- The Quarterly NNCR is available on ECHO (echo.epa.gov) within the blue "Search Options" tab (bottom left corner)
  - Quarterly NNCR Search
  - NNCR Help Documentation
- NNCR Trainings
- NNCR Guide

Quarterly NNCR Search Flow

1

Search Form

User-defined search criteria.

2

Summary Results

Table summarizing the quarterly NNCR and displays high-level violation information. Table contains one row per NPDES ID.
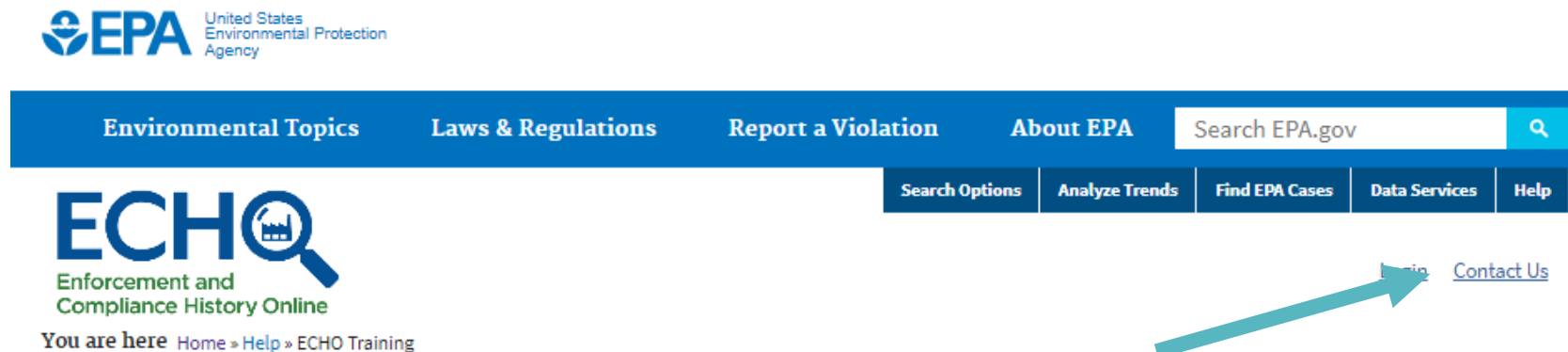
3

Detailed Report

Permit-level violation report that displays all violations for permits linked to a facility (FRS ID).

Demonstration

Next Steps

- If you have questions about the NNCR or have suggested recommendations for the workgroup to consider, please reach out to the ECHO Help Desk.

"Contact Us" link is available at the top right of every ECHO page

Appendix

Examples from REF_PARAMETER

Parameter Code	Parameter Description	SNC Flag
50050	Flow, in conduit or thru treatment plant	-
00095	Specific conductance	-
00400	pH	-
01045	Iron, total [as Fe]	1
00610	Nitrogen, ammonia total [as N]	1
00545	Solids, settleable	1
01055	Manganese, total [as Mn]	2
50060	Chlorine, total residual	2
01042	Copper, total [as Cu]	2

Pollutant Groups
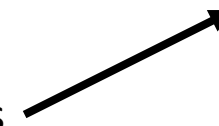
Examples from REF_STATISTICAL_BASE

Statistical Base Code	Statistical Base Description	Monthly Average Flag
MK	Monthly Average	A
DB	Daily Average	A
3D	30 Day Geometric	A
DD	Daily Maximum	N
WA	Weekly Average	N
MP	Monthly Total	N
MO	Monthly Minimum	-
ME	Minimum	-
DC	Daily Minimum	-

A = Monthly Average
N = Non-monthly Average
 - = Minimum

(E1A) Effluent – Magnitude Monthly Average: Example 2

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (50%) E1A	No Violation	Effluent Violation (10%) E2C	No Violation	No Violation	No Violation
Quantity 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 1 Monthly Average	Effluent Violation (4%) E2C	No Violation	Effluent Violation (40%) E1A	No Violation	Effluent Violation (2%) E2C	No Violation
Concentration 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 3 Minimum	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (50%) E1A	Effluent Violation (3%) E1B	Effluent Violation (10%) E1B	Effluent Violation (1%) E1B	No Violation	No Violation
Quantity 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 1 Monthly Average	Effluent Violation (4%) E1B	No Violation	Effluent Violation (40%) E1A	Effluent Violation (1%) E1B	Effluent Violation (2%) E1B	No Violation
Concentration 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 3 Minimum	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation

(E2C) Effluent – Monthly Average: Example 2

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	No Violation	No Violation	No Violation	No Violation	Effluent Violation (300%) E2C	No Violation
Quantity 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 1 Monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 3 Minimum	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation

(E2C) Effluent – Monthly Average: Example 3

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group 0 Pollutant

DMR Value Type / Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Quantity 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 1 Monthly Average	Effluent Violation (10%) E2C	Effluent Violation (160%) E2C	Effluent Violation (80%) E2C	Effluent Violation (25%) E2C	Effluent Violation (25%) E2C	No Violation
Concentration 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 3 Minimum	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation

(E2D) Effluent – Magnitude Non-Monthly Average: Example 2

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (6%) E2C	Effluent Violation (1%) E2C	No Violation	No Violation	No Violation	Effluent Violation (35%) E2C
Quantity 2 Non-monthly Average	Effluent Violation (4%) E2F	Effluent Violation (2%) E2F	No Violation	Effluent Violation (2%) E2F	No Violation	Effluent Violation (46%) E2D
Concentration 1 Monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 2 Non-monthly Average	Effluent Violation (61%) E2D	No Violation	Effluent Violation (8%) E2F	No Violation	No Violation	Effluent Violation (10%) E2F
Concentration 3 Minimum	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation

(E2E) Effluent – Chronic Non-Monthly Average: Example 2

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (50%) E2C	Effluent Violation (8%) E2C	Effluent Violation (10%) E2C	No Violation	No Violation	No Violation
Quantity 2 Non-monthly Average	Effluent Violation (22%) E2E	Effluent Violation (2%) E2E	Effluent Violation (20%) E2E	Effluent Violation (1%) E2F	Effluent Violation (1%) E2F	Effluent Violation (2%) E2E
Concentration 1 Monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	Effluent Violation (1%) E2C
Concentration 2 Non-monthly Average	Effluent Violation (25%) E2E	Effluent Violation (2%) E2E	Effluent Violation (20%) E2E	Effluent Violation (1%) E2F	Effluent Violation (6%) E2F	Effluent Violation (10%) E2E
Concentration 3 Minimum	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

When a parameter has both a monthly average and non-monthly average limit, the violations are only detected for non-monthly TRC and chronic if the monthly average was also violated to some degree during the same monitoring period.

(E2F) Effluent – Non-Monthly Average: Example 2

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	6-month Review Period
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (39%) E2C	No Violation	No Violation	No Violation	No Violation	No Violation
Quantity 2 Non-monthly Average	No Violation	No Violation	No Violation	Effluent Violation (1%) E2F	Effluent Violation (1%) E2F	No Violation
Concentration 1 Monthly Average	No Violation	No Violation	No Violation	No Violation	Effluent Violation (2%) E2C	No Violation
Concentration 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	Effluent Violation (25%) E2F	Effluent Violation (2%) E2F
Concentration 3 Minimum	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation

(E1H) Effluent – Enforcement: Example 2

Code	Description
E1A	Effluent – Magnitude Monthly Average
E1B	Effluent – Chronic Monthly Average
E2C	Effluent – Monthly Average
E2D	Effluent – Magnitude Non-monthly Average
E2E	Effluent – Chronic Non-monthly Average
E2F	Effluent – Non-monthly Average
E2G	Effluent – Minimum
E1H	Effluent – Enforcement
M1	Category I – Manual

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (5%) E1H	No Violation	No Violation	Effluent Violation (24%) E1H	No Violation	No Violation
Quantity 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 1 Monthly Average	No Violation	Effluent Violation (8%) E1H	No Violation	No Violation	No Violation	No Violation
Concentration 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 3 Minimum	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation

(R2) Effluent – 3 Months Clean: Example 4

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (50%) E1A	Effluent Violation (3%) E2C	Effluent Violation (10%) E2C	No Violation	No Violation	No Violation
Quantity 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 1 Monthly Average	No Violation	No Violation	Effluent Violation (40%) E1A	No Violation	NODI C	No Violation
Concentration 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 3 Minimum	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation

Code	Description
R2	Effluent – 3 Months Clean

(R2) Effluent – 3 Months Clean: Example 5

Code	Description
R2	Effluent – 3 Months Clean

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (50%) E1A	Effluent Violation (3%) E2C	Effluent Violation (10%) E2C	No Violation	Overdue DMR (D90)	No Violation
Quantity 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 1 Monthly Average	No Violation	No Violation	Effluent Violation (40%) E1A	No Violation	No Violation	No Violation
Concentration 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 3 Minimum	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation

(R2) Effluent – 3 Months Clean: Example 6

Code	Description
R2	Effluent – 3 Months Clean

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (50%) E1A	Effluent Violation (3%) E1B	Effluent Violation (10%) E1B	No Violation	No Violation	No Violation
Quantity 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 1 Monthly Average	No Violation	No Violation	Effluent Violation (40%) E1A	No Violation	Effluent Violation (1%) E1B	No Violation
Concentration 2 Non-monthly Average	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation
Concentration 3 Minimum	No Violation	No Violation	No Violation	No Violation	No Violation	No Violation

(R2) Effluent – 3 Months Clean: Example 7

Code	Description
R2	Effluent – 3 Months Clean

NPDES ID: DC1234567, Permitted Feature: 001, Monitoring Location: Effluent Gross, Parameter: Group I Pollutant (40%)

DMR Value Type / Limit Type	6-month Review Period					
	Month 1	**Month 2**	**Month 3**	**Month 4**	**Month 5**	**Month 6**
	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code	Violation (% Over Limit) Detection Code Resolution Code
Quantity 1 Monthly Average	Effluent Violation (50%) E1A	Effluent Violation (40%) E1A	No Violation	No monitoring requirements for months 4-6		
Quantity 2 Non-monthly Average	No Violation	No Violation	No Violation			
Concentration 1 Monthly Average	No Violation	No Violation	No Violation			
Concentration 2 Non-monthly Average	No Violation	No Violation	No Violation			
Concentration 3 Minimum	No Violation	No Violation	No Violation			