Introduction to State Review Framework Data Metrics Spreadsheet Clean Water Act

Background on CWA NPDES Program

In 1972, the Clean Water Act (CWA) was enacted. One important element of the CWA is to prohibit the discharge of pollutants from point sources into waters of the United States, unless authorized by a permit. CWA Section 402 created the National Pollutant Discharge Elimination System (NPDES) permit program. The program gives the EPA the authority to regulate discharges into the nation's waters by setting limits on the effluent that can be introduced into a body of water from an operating and permitted facility. EPA can authorize states to be the primary regulatory agency administering the NPDES program. When a state is authorized, basic program management responsibilities are outlined in the regulations. For example, the regulatory authority is required to track and monitor the compliance status of all NPDES facilities. Although a state may be the primary regulatory agency administering the NPDES program, EPA retains oversight and can initiate enforcement actions. There are five states (AK, ID, MA, NH, NM, DC), Puerto Rico, the Pacific territories, and tribal lands where EPA remains the permitting authority. The State Review Framework (SRF) is a tool designed to evaluate the performance of the regulatory agency administering the NPDES program.

As part of the NPDES program, facilities are designated as either a Major or a Non-Major permittee. A major municipal facility includes those with design flows of greater than one million gallons per day and facilities with EPA and State approved industrial pretreatment programs. Major industrial facilities are determined based on specific ratings criteria developed by the EPA and State. Major facilities are required to provide data to the regulatory authority and national database on compliance status on a routine basis. A non-major permittee is any permittee in the NPDES program that is not classified as a major permittee. The information that the regulatory authorities is required to report to the national data system is dependent on the designation of a facility as a major or non-major. For example, there are approximately 6,600 majors and about 39,000 non-majors that have individual permits. EPA has required states to enter DMR data for only the 6,600 largest dischargers in the country, while strongly suggesting that data for smaller sources be entered.

Basic Information on the CWA State Review Framework Data Metrics Spreadsheet

The data metrics spreadsheet provides basic information on the definition of the data metric and what the metric is evaluating. The spreadsheet also identifies whether the information for a particular data metric is required to be reported to the national data system. Although EPA does not require all data to be reported to the national data system, the regulatory authority is responsible for determining and tracking compliance status and enforcement and maintaining data on compliance status. Data metrics that are required to be reported to the national data system will provide a fairly complete picture of this part of the NPDES program. Often times, when a data metric is not required to be reported to the national data system, the regulatory authority has more complete data that will be provided to the EPA at the time the state review begins. To obtain more complete data on the metrics that are not required to be reported to the national data system, the state should be contacted directly.

	Final: Clear	n Water Act Data M	letrics Spreadsh	neet (Pul	olic Versio	า 1.0)	
Metric #	Name	Description	Guidance, Requirement or Goal	Universe	EPA and State Data Combined Region/State or State-only Data?	Original Source of Data Provided by EPA	Metric Type
1. Data	a Completeness. Deg	gree to which the Minimu	ım Data Requirement	s are comp	lete.		
1a1		1a1. Number of NPDES majors with individual permits	Region and state should agree on active universe. This data is required to be reported to the national data system.	All major facilities with individual permits.	EPA and State Data Combined	PCS or ICIS- NPDES	Data Quality
1a2	Active facility universe	1a2. Number of NPDES majors with general permits (Regions only)	Universe should be correct. This data is required to be reported to the national data system.	All major facilities with general permits.	EPA and State Data Combined	PCS or ICIS- NPDES	Data Quality (Regional-only metric)
1a3	counts accurate for all NPDES permit types	1a3. Number of NPDES non- majors with individual permits	Region and state should agree on active universe. This data is required to be reported to the national data system.	All non- major facilities with individual permits	EPA and State Data Combined	PCS or ICIS- NPDES	Data Quality
1a4		1a4. Number of NPDES non- majors with general permits	Region and state should agree on active universe. This data is required to be reported to the national data system.	All non- major facilities with general permits	EPA and State Data Combined	PCS or ICIS- NPDES	Data Quality

Metric #	Name	Description	Guidance, Requirement or Goal	Universe	EPA and State Data Combined Region/State or State-only Data?	Original Source of Data Provided by EPA	Metric Type
1b1		percent with permit limits present in the national database	95% entry standard for majors. This data is required to be reported to the national data system.	Active majors with individual permits	EPA and State Data Combined	PCS or ICIS- NPDES	Goal
	Majors permit limits and DMR entry complete		majors. This data is required to be reported to	Active majors with individual permits	EPA and State Data Combined	PCS or ICIS- NPDES	Goal
1b3		individual permits, percent with DMR data in the national	95% entry standard for DMRs for major facilities. This data is required to be reported to the national data system.	Active majors with individual permits	EPA and State Data Combined	PCS or ICIS- NPDES	Goal
1b4		1b4. Rate of manual override of RNC/SNC of major facilities to a compliant status	facilities to a compliant	Active majors	EPA and State Data Combined	PCS or ICIS- NPDES	Data Quality

Metric #	Name	Description	Guidance, Requirement or Goal	Universe	EPA and State Data Combined Region/State or State-only Data?	Original Source of Data Provided by EPA	Metric Type
1c1		1c1. Of non-majors with individual permits, the percent with permit limits present in the national database (informational only)	This is not currently a required field for non-major facilities in the national data system.	Active non- majors with individual permits	EPA and State Data Combined	PCS or ICIS- NPDES	Informational- only
1	Non-majors permit limits and DMR entry	1c2. DMR entry rate for those non-majors with individual permits in the national database. This DMR entry rate will be expressed as the percentage of non-major facility outfalls for which DMR data was entered for each month (for a particular quarter).		Active non- majors with individual permits	EPA and State Data Combined	PCS or ICIS- NPDES	Informational- only
1c3		1c3. Of non-majors with individual permits, percentage with DMR data in the national database	This is not a required field for non-major facilities in the national data system.	Active non- majors with individual permits	EPA and State Data Combined	PCS or ICIS- NPDES	Informational- only

Metric #	Name	Description	Guidance, Requirement or Goal	Universe	EPA and State Data Combined Region/State or State-only Data?	Original Source of Data Provided by EPA	Metric Type
1d1	Quality of violation data at non-major facilities with	1d1. Noncompliance rate in database at non-major facilities (with individual permits) in fiscal year (informational only)		Non-majors with individual permits (and that are expected to regularly submit DMRs)	EPA and State Data Combined	PCS or ICIS- NPDES	Informational- only
1d2	individual permits (and that are expected to regularly submit DMRs)	1d2. Noncompliance rate reported to EPA for non-major facilities (with individual permits) under the Annual Noncompliance Report (ANCR)	data systems for non- major facilities for 1d1 and 1d3; however, these	Non-majors with individual permits (and that are expected to regularly submit DMRs)	EPA and State Data Combined	ANCR	Informational- only
1d3	facilities with individual permits (and that are	1d3. Number of non-major facilities in database with DMR non-receipt for every quarter in three continuous years	shown in ECHO).	Non-major facilities with individual permits (and that are expected to regularly submit DMRs)	EPA and State Data Combined	PCS or ICIS- NPDES	Informational- only

Metric #	Name	Description	Guidance, Requirement or Goal	Universe	EPA and State Data Combined Region/State or State-only Data?		Metric Type
1e1		1e1. Number of major facilities with informal actions in FFY	This data is required to be reported to the national data system.	Major facilities	State-only (with Region-only provided)	PCS or ICIS- NPDES	Data Quality
1e2		1e2. Total number of state informal actions issued to major facilities in FY	This data is required to be reported to the national data system.	Major facilities	State-only (with Region-only provided)	PCS or ICIS- NPDES	Data Quality
1e3	Informal actions counts complete	1e3. Number of non-major facilities with informal actions in FFY	Required data for P.L. 92- 500 non-major facilities (essentially those non- major POTWs which reveived grant assistance under the Clean Water Act), but not for other non- majors	Non-major facilities	State-only (with Region-only also provided)	PCS or ICIS- NPDES	Data quality metric for P.L. 92-500 non- majors; informational only for other non-majors
1e4	Informal actions counts complete	1e4. Total number of state informal actions issued to non-major facilities in FFY	Required data for P.L. 92- 500 non-major facilities (essentially those non- major POTWs which reveived grant assistance under the Clean Water Act), but not for other non- majors	Non-major facilities	State-only (with Region-only also provided)	PCS or ICIS- NPDES	Data quality metric for P.L. 92-500 non- majors; informational only for other non-majors

Metric #	Name	Description	Guidance, Requirement or Goal	Universe	EPA and State Data Combined Region/State or State-only Data?	Original Source of Data Provided by EPA	Metric Type
1f1		1f1. Number of major facilities with formal actions	This data is required to be reported to the national data system.	Major facilities	State-only (with Region-only also provided)	PCS or ICIS- NPDES	Data Quality
1f2		1f2. Total number of formal actions taken against major facilities	This data is required to be reported to the national data system.	Major facilities	State-only (with Region-only also provided)	PCS or ICIS- NPDES	Data Quality
	Formal action counts complete	1f3. Number of non-major facilities with formal actions	Required data for P.L. 92- 500 non- major facilities, but not for other non- majors	Non-major facilities	State-only (with Region-only also provided)		Data quality metric for P.L. 92-500 non- majors; informational only for other non-majors
1f4		1f4. Total number of formal actions taken against non-major facilities	Required data for P.L. 92- 500 non-major facilities, but not for other non- majors	Non-major facilities	State-only (with Region-only also provided)	PCS or ICIS- NPDES	Data quality metric for P.L. 92-500 non- majors; informational only for other non-majors

Metric #	Name	Description	Guidance, Requirement or Goal	Universe	EPA and State Data Combined Region/State or State-only Data?	Original Source of Data Provided by EPA	Metric Type
1g1	Assessed penalties complete	actions with penalties	enter penalty data for judicial actions; EPA is required to enter data for	All facilities	State-only (with Region-only also provided)	PCS or ICIS- NPDES	Data Quality
1g2		1g2. Total state penalties	iudicial and		provided	IVI DEG	Data Quality
1g3	Penalties normally included with	1g3. Total penalties assessed pursuant to civil judicial settlements (three- year average).	Data entry is required for states and Regions	All facilities with penalties from civil judicial actions.	State-only (with Region-only also provided)	PCS or ICIS- NPDES	Data Quality
1g4	enforcement actions	1g4. Total penalties assessed pursuant to administrative actions (three- year average).	Data entry is not currently required except for Regions.	All facilities with penalties from admin. actions	State-only (with Region-only also provided)	PCS or ICIS- NPDES	Informational- only
1g5	No activity indicator (penalties) **	_	States are required to enter judicial actions. Regions are required to enter both judicial and administrative actions.	All facilities	State-only (with Region-only also provided)	PCS or ICIS- NPDES	Data Quality

Metric #	Name	Description	Guidance, Requirement or Goal	Universe	EPA and State Data Combined Region/State or State-only Data?	Data Provided by EPA	Metric Type
2. Data		o which the Minimum Da	ata Requirements are	accurate.	example corre	ect codes	used,
2a	Number of formal enforcement actions, taken against major facilities, with enforcement violation type (EVTP in PCS or equivalent in ICIS-NPDES) codes entered.	2a. Number of formal enforcement actions, taken against major facilities, with enforcement violation type (EVTP in PCS or equivalent in ICIS-NPDES) codes entered.	The Region should ensure that all enforcement actions are properly linked to violations noted in PCS or ICIS-NPDES.	All major facilities with formal enforcement actions	State-only (with Region-only also provided)	PCS or ICIS- NPDES	Data Quality
3. Tim	eliness of Data Entry	. Degree to which the M		ments are	timely.		
3a	Percent change in data metrics	3a Percent change in each of the data metrics that represent required data	The two data sets are reviewed and the number of changes, as well as the magnitude of the changes for data metrics that represent required data elements is reported.	all data metrics	State only	PCS or ICIS- NPDES	Review Indicator
	-	ents. Degree to which all	enforcement/compli	ance comn	nitments in rele	evant agr	eements
	are no data metrics fro		mlata d tha conference a	f plancal i			avalvations.
5. Insp	Dection Coverage. De	egree to which state com	-	ot pianned i	nspections/co	mpiiance	evaluations
5a	Inspection coverage - NPDES majors	Inspections at NPDES majors with individual permits or general permits.	Goal has been to inspect 100 percent of the majors annually, or inspecting as few as 70% of the majors, as long as there is a two-for-one inspection of minors for each major not inspected. Beginning in 2009, the state is evaluated against the inspection coverage agreed upon between the EPA and state. If there is not a coverage agreed upon between EPA and the state then the national goal applies.	Active NPDES majors with individual or general permits	State-only (but separate region- only and EPA and State Data Combined % also provided)	PCS or ICIS- NPDES	Goal

Metric #	Name	Description	Guidance, Requirement or Goal	Universe	EPA and State Data Combined Region/State or State-only Data?	Original Source of Data Provided by EPA	Metric Type
5b1	Inspection coverage -	implementing the CMS prior to that fiscal year. Under the CMS, the goal is 100% inspection coverage within a	In FY 2007 and FY 2008, the state is evaluated against relevant commitments. After FY 2008, the goal is that which is established between EPA and the	Active NPDES non- majors with individual permits, excluding those permits which address solely stormwater, pretreatment , CAFOs, or CSOs.	State-only (but separate region- only and EPA and State Data Combined % also provided)	PCS or ICIS- NPDES	Goal.
5b2	NPDES non-majors	majors with general permits, excluding those permits which address solely stormwater, pretreatment,	between EFA and the state. Where the goal has not been established between the EPA and state, the goals in the national guidance will apply (20%).	Active traditional non-majors with general permits	State-only (but separate region- only and EPA and State Data Combined % also provided)	PCS or ICIS- NPDES	Goal.

Metric #	Name	Description	Guidance, Requirement or Goal	Universe	EPA and State Data Combined Region/State or State-only Data?	Original Source of Data Provided by EPA	Metric Type
5c	Other inspections performed (beyond facilities indicated in 5a and 5b) (Coverage)	Prior to implementation of the CMS, this is a review indicator metric. It provides inspection coverage for NPDES permittees that do not have effluent limits and DMRs. In some cases, states may agree to inspection percentages for such other majors and nonmajors in PPAs, PPGs, or, prior to implementation of the CMS, may be meeting basic goals by "trading" major for non-major inspections.	In FY 2007 and FY 2008, the state is evaluated against relevant commitments. After FY 2008, the goal is that which is established between EPA and the state. Where the goal has not been established between the EPA and state, the goals in the national guidance will apply (20%).	Active NPDES non- majors whose permits address solely stormwater, pretreatment , CAFOs, or CSOs.	State-only (but separate region- only and EPA and State Data Combined % also provided)	PCS or ICIS- NPDES	Review indicator metric prior to FY2008; goal after FY2008
	lity of Inspection or Care no data metrics fro	Compliance Evaluation R	eports. Degree to wh	nich inspec	tion or complia	ance eval	uation
		Violations. Degree to w	hich compliance dete	erminations	are accurately	y made a	nd promptly
7a1	Number of single-event violations reported to national system (non-automated violations	7a1. Number of single-event violations at active majors. This measure assesses whether violations determined by means other than automated discharge-to-limits comparisons are being reported and tracked in PCS/ICIS-NPDES.	States are required to report single event violations to the national data system for major facilities. Violations found at non-major facilities are not required to be reported to the national data system.	Active majors	EPA and State Data Combined (IDEA does not provide ability to separate EPA from state)	PCS or ICIS- NPDES	Data Quality
7a2	arising from inspections and compliance monitoring)	7a2. Number of single-event violations at non-majors. This measure assesses whether violations determined by means other than DMRs are being reported and tracked in PCS/ICIS-NPDES	except for POTWs with approved local pretreatment programs. However, states are required to make and track compliance status at non-major facilities.	Active non- majors	EPA and State Data Combined (IDEA does not provide ability to separate EPA from state)	PCS or ICIS- NPDES	Informational- only

Metric #	Name	Description	Guidance, Requirement or Goal	Universe	EPA and State Data Combined Region/State or State-only Data?	Original Source of Data Provided by EPA	Metric Type
7b	Compliance schedule violations	7b. Of the number of permittees with compliance schedule milestones scheduled to be met in the FFY, the percentage of facilities with unresolved compliance schedule violations, as of the end of the fiscal year.	Compliance schedules are required to be reported to the national data system for major permits.	All facilities with compliance schedule milestones in that FFY and those with unresolved compliance schedule violations, as of the end of the fiscal year.	EPA and State Data Combined	PCS or ICIS- NPDES	Data Quality
7c	Permit schedule violations	7c. Of the number of permittees with permit schedule milestones scheduled to be met in the FFY, the percentage of facilities with unresolved permit schedule violations, as of the end of the fiscal year.	Permit schedules are required to be reported to the national data system for major permits.	All facilities with permit schedule milestones in that FFY and those with unresolved permit schedule violations, as of the end of the fiscal year.	EPA and State Data Combined	PCS or ICIS- NPDES	Data Quality
7d	Percentage of major facilities with DMR violations reported to the national database	7d. Percentage of major facilities with DMR violations reported to the national database.	States are required to enter DMR data to the national data system for major facilities.	Active majors	EPA and State Data Combined	PCS or ICIS- NPDES	Data Quality

Metric #	Name	Description	Guidance, Requirement or Goal	Universe	EPA and State Data Combined Region/State or State-only Data?	Original Source of Data Provided by EPA	Metric Type
8. Idei	ntification of SNC and	HPV. Degree to which	the state accurately id	dentifies si	gnificant nonc	omplianc	e/high
8a1	F	8a1. Active major facilities in SNC during reporting year	This data is required to be reported to the national data system.	Active majors	EPA and State Data Combined (PCS does not provide ability to separate EPA from state)	PCS or ICIS- NPDES	Review indicator metric
8a2	Frequency of SNC	8b2. Percent of active major facilities in SNC during the reporting year	This data is required to be reported to the national data system.	Active majors	EPA and State Data Combined (PCS does not provide ability to separate EPA from state)	PCS or ICIS- NPDES, and IDEA	Review indicator metric
	Wet Weather SNC placeholder (particularly for non-authorized states) forcement Actions Prare no data metrics fro	Metric(s) likely to be develope omote Return to Complia		h state ent	orcement action	ons inclu	de required
		Action. Degree to which	a state takes timely	and appro	oriate enforcen	nent actio	ons in
10a	Major facilities without timely action as appropriate	% of major facilities for which enforcement actions were not taken before two consecutive quarters of QNCR effluent violation at same pipe for the same parameter was reported or two consecutive quarters of the same non effluent SNC violation was recorded	The number of facilities without timely action should not exceed 2% of active major universe throughout the fiscal year.	Majors	EPA and State Data Combined	PCS or ICIS- NPDES	Goal
11. Pe	enalty Calculation Met	hod. Degree to which st	tate documents in its	files that in	nitial penalty ca	alculation	nincludes
	are no data metrics fro		1 1 1 100				
		ent and Collection. Degr Please refer to metric 1g5. If a					
12a.	Penalties assessed.	Please refer to metric 1go. Il A	zero penallies nave been la	iken by the st	ate (as verified by (data pulis o	r subsequent

Acronyms and Notes	
ANCR	Annual Non-compliance Report for non-major facilities
CAFO	Concentrated Animal Feeding Operation
CMS	Compliance Monitoring Strategy
CSO	Combined Sewer Overflow
CWA	Clean Water Act
DMR	Discharge Monitoring Report
EMS	Enforcement Management System
EVTP	Enforcement Violation Type
FFY	Federal Fiscal Year (October 1 and ending September 30)
ICIS-NPDES	Integrated Compliance Information System – National Pollutant Discharge Elimination System
Majors	A "major" NPDES permit discharge is either 1) a publicly owned treatment works (POTW) with a design flow of 1 million gallon/day or with an approved industrial pretreatment program, or 2) a non-POTW a score of 80 or greater as determined by the NPDES Permit Rating Worksheet score. The Worksheet scores facilities on toxic pollutant potential, flow/stream flow volume, conventional pollutants, water quality factors, proximity to coastal waters, and proximity to drinking water supplies. The comprehensive Worksheet can be found at: www.epa.gov/npdes/pubs/owm0116.pdf.
Manual Overrides	Regarding manual overrides, there may be legitimate reasons for such overrides in infrequent circumstances; however, excessive use of such overrides may be indicative of other problems that EPA will discuss with states.
NPDES	National Pollutant Discharge Elimination System
PCS	Permit Compliance System.
PL 92-500	This was the first Clean Water Act, enacted in 1972. Public Law 92-500 facilities are POTWs that received some federal grant assistance under the Clean Water Act.
POTW	Publicly Owned Treatment Works
QNCR	Quarterly Noncompliance Report
RNC	Reportable Noncompliance
SNC	Significant Noncompliance
SSO	Sanitary Sewer Overflow
WENCB	Water Enforcement National Data Base