STATE REVIEW FRAMEWORK MARYLAND

Implementation in Federal Fiscal Year 2011

Executive Summary

Introduction

A State Review Framework (SRF) oversight file review of the Maryland Department of the Environment's (MDE) Clean Water Act National Pollutant Discharge Elimination System (CWA-NPDES), Clean Air Act, Stationary Sources, and Resource Conservation and Recovery Act (RCRA) enforcement programs.

SRF findings are based upon program metrics derived from a review of federal and state data systems, compliance monitoring and enforcement file reviews, and interviews with state program managers and staff. Compliance monitoring and enforcement data and files are selected from activities occurring during Fiscal Year 2011. The SRF findings are a snapshot in time (FY2011), and it should be noted that MDE has made subsequent programmatic improvements in several areas of concern that were identified in the report. In the CWA-NPDES program, MDE is already working with EPA to improve the consistency and accuracy of data management procedures, incorporate an economic benefit analysis into significant enforcement actions, and adopt standard operating procedures to ensure that enforcement actions are resulting in a return to compliance. Further details about NPDES post-SRF state activities are noted in the "state response" portion of each element within the document. In addition, EPA notes that several program specific findings identified within this review, such as those pertaining to MDE's stormwater program, are currently being addressed through work plans that were negotiated and agreed to through more recent program assessments.

While this report identifies program performance areas in need of improvement, there were areas in which the MDE's performance met the SRF criteria. The files reviewed for the Air portion of the review showed that MDE's Air Enforcement program takes timely and appropriate enforcement consistent with the High Priority Violator (HPV) policy. In fact, the data metric shows that MDE is well above the national average in addressing HPVs in a timely manner.

Priority Issues to Address

The following are the top priority issues affecting the state's program performance:

NPDES:

- MDE does not enter or upload all minimum data requirements for the MD NPDES compliance and enforcement program.
- MDE enforcement actions do not consistently return to compliance facilities with significant non-compliance (SNC) and non-SNC violations.
- MDE does not consistently consider economic benefit when calculating penalties

Air:

- MDE needs to improve how they document compliance and enforcement history in their Compliance Monitoring Reports (CMRs).
- MDE needs to improve how they document the difference between the initial and final assessed penalties.
- MDE needs to improve how they document the rationale of gravity and economic benefit calculations for initial penalty calculations.

RCRA

- The RCRA reviewers found inaccurate data entry related to 11 of 30 files reviewed. The single biggest issue was the failure to enter SNC data into RCRAInfo this was found in 9 of the files reviewed.
- Documentation of penalty calculations was not found in the majority of the files reviewed. Only one file contained both gravity and economic benefit.

Major SRF CWA-NPDES Program Findings

- MDE does not enter or upload all minimum data requirements into the national database for NPDES major and non-major facilities.
- MDE does not accurately identify single event violations (SEVs) for major and non-major facilities. In addition, MDE does not consistently identify and timely report SEVs that are SNC violations.
- MDE enforcement actions do not consistently result in returning to compliance facilities with SNC and non-SNC violations.
- MDE does not routinely calculate economic benefit to the violator when calculating penalties in enforcement actions.

Major SRF RCRA Subtitle C Program Findings

• In 30% of the files reviewed, inspection reports did not contain sufficient documentation to verify the compliance determination.

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State Review Framework

I. Background on the State Review Framework

The State Review Framework (SRF) is designed to ensure that EPA conducts nationally consistent oversight. It reviews the following local, state, and EPA compliance and enforcement programs:

- Clean Air Act Stationary Source
- Clean Water Act National Pollutant Discharge Elimination System
- Resource Conservation and Recovery Act Subtitle C

Reviews cover these program areas:

- Data completeness, timeliness, and quality
- Compliance monitoring inspection coverage, inspection quality, identification of violations, meeting commitments
- Enforcement actions appropriateness and timeliness, returning facilities to compliance
- Penalties calculation, assessment, and collection

Reviews are conducted in three phases:

- Analyzing information from the national data systems
- Reviewing a representative set of state files
- Development of findings and recommendations

Consultation is also built into the process. This ensures that EPA and the state understand the causes of a particular issue and seek agreement on actions needed to address them.

SRF reports are designed to capture best practices and identify areas for program improvements. EPA also uses the information in the reports to better understand the enforcement and compliance programs nationwide, and to identify any issues that require a national response.

Reports provide factual information based upon the review. They do not include determinations of overall program adequacy, nor are they used to compare or rank state programs.

Each state program is reviewed every four years. The first round of SRF reviews began in FY2004. The third round of reviews began in FY2012 and will continue through FY2016.

II. SRF Review Process

Review period: Fiscal Year 2011

Key dates:

• Kickoff meeting conducted: August 2, 2012

Key Dates NPDES:

• Data metric analysis: June 28, 2012

• File selection list sent to state: August 20, 2012

• On-site file review conducted: September 17 – 21, 2012

Key Dates Air:

- Data metric analysis and file selection list sent to state: July 11, 2012
- The CAA on-site file review was conducted by Danielle Baltera, Maryland State Liaison Officer with Louvinia Madison, Kurt Elsner, Sharon McCauley and Marcia Spink, Associate Director for State Relations of the Air Protection Division during the week of July 30, 2012.

Key Dates RCRA:

- Data Metric Analysis and file selection sent to state on June 29, 2012
- On-site file review conducted July 23-26, 2012

Communication with the state:

The EPA Region III NPDES, Air Enforcement and RCRA Enforcement programs communicated regularly with MDE to discuss preparation for the on-site file review. Discussions included data verification and data metric analysis (DMA) in addition to planning related to the file selection and on-site file review.

EPA's NPDES program conducted the SRF on-site file review from September 17-21, 2012 at MDE headquarters located in Baltimore, MD. EPA staff conducted an opening conference with MDE staff and management to discuss the new round 3 SRF process. Additional topics addressed during the opening conference included a review of prior SRF recommendations from round two as well as an overview of MDE's NPDES program including state commitments, staff roles and responsibilities, training, state data systems and budgetary issues.

Upon completion of the file review, the Region conducts an exit meeting to discuss initial observations, address any outstanding questions related to the file review, and explain the resolution process for any significant issues identified through the SRF review.

Refer to Appendix F for correspondence materials.

State and EPA regional lead contacts for review:

Jesse Salter, Section Head, Compliance Program, Water Management Administration, MDE Heather Nelson, Chief, Compliance Program, Water Management Administration, MDE Sharon Talley, Section Head, Enforcement Division, Water Management Administration, MDE Dave Lyons, Deputy Director, Compliance Program, Water Management Administration, MDE Brian Clevenger, Program Manager, Sediment, Stormwater, and Dam Safety, WMAW MDE Ginny Kearney, Deputy Director, Water Management Administration, MDE Raymond Bahr, Division Chief, Sediment and Stormwater Program Review, WMA, MDE Carol Coates, Chief, Enforcement Division, Compliance Program, WMA, MDE

Angelo Bianca, Deputy Air Director, ARMA, MDE

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Chris Menen, Enforcement Officer, Water Protection Division, EPA Region III Matthew Colip, Enforcement Officer, Water Protection Division, EPA Region III Aureana Nguyen, Enforcement Officer, Water Protection Division, EPA Region III

Carol Amend, Associate Director, Office of Land Enforcement, EPA Region III

Marcia Spink, Associate Director for State Relation, Air Protection Division, EPA Region III

III. SRF Findings

Findings represent EPA's conclusions regarding state performance, and may be based on:

- Initial findings made during the data and/or file reviews
- Annual data metric reviews conducted since the state's Round 2 SRF review
- Follow-up conversations with state agency personnel
- Additional information collected to determine an issue's severity and root causes
- Review of previous SRF reports, MOAs, and other data sources

There are four types of findings:

Good Practice: Activities, processes, or policies that the SRF metrics show are being implemented at the level of Meets Expectations, **and** are innovative and noteworthy, **and** can serve as models for other states. The explanation must discuss these innovative and noteworthy activities in detail. Furthermore, the state should be able to maintain high performance.

Meets Expectations: Describes a situation where either: a) no performance deficiencies are identified, or b) single or infrequent deficiencies are identified that do not constitute a pattern **or** problem. Generally, states are meeting expectations when falling between 91 to 100 percent of a national goal. The state is expected to maintain high performance.

Area for State Attention: The state has single or infrequent deficiencies that constitute a minor pattern or problem that does not pose a risk to human health or the environment. Generally, performance requires state attention when the state falls between 85 to 90 percent of a national goal. The state should correct these issues without additional EPA oversight. The state is expected to improve and achieve high performance. EPA may make recommendations to improve performance but they will not be monitored for completion.

Area for State Improvement: Activities, processes, or policies that SRF data and/or file metrics show as major problems requiring EPA oversight. These will generally be significant recurrent issues. However, there may be instances where single or infrequent cases reflect a major problem, particularly in instances where the total number of facilities under consideration is small. Generally, performance requires state improvement when the state falls below 85 percent of a national goal. Recommendations are required to address the root causes of these problems, and they must have well-defined timelines and milestones for completion. Recommendations will be monitored in the SRF Tracker.

Clean Water Act Findings

Element 1 — Data Completeness: Completeness of Minimum Data Requirements.			
Finding	Area for State Improvement		
Description	An analysis of FY2011 state compliance data determined that MDE does not enterminimum required data elements for material facilities into the ICIS national database	er or upload all jor and non-n	ll of the NPDES
Explanation	A review of the data metrics under Elemdoesn't completely enter or upload compensor of completely enter or upload compensor of compensor of the NPDE permits, and non-major individual and gMDE completed data entry for major and facilities and industrial facilities. Howe Phase II non-major facility data is not en national database by MDE. Currently, information is entered into the national dead inspections at Phase I MS4s. MDE MS4 Phase I or Phase II facilities in the facility data for CAFOs is not currently national database by MDE. MDE does monitoring and enforcement activities in data analysis identified a discrepancy of with general permits not entered or uploal although MDE enters data for those permenter or upload informal enforcement act are tracked internally by MDE. MDE in number of formal enforcement actions a MDE's inspection coverage for NPDES was below the national average by over	pliance monity of minimum results and permits do non-major wer, MS4 Phantered or uploom MS4 Phase I database by Eddoes not collate to the state data and the mits in TEMP and the mits in	oring and equired data idual and general s in Element 1. wastewater ase I major and aded into the major facility PA due to EPA- lect data or track base. In addition, loaded into the compliance a system. EPA's non-major facilities national database PO. MDE does not h informal actions ported the total on-major facilities.
Relevant metrics	Metric	ICIS	TEMPO
	1a4-Number of Non-Majors General	2247	2448
	1e1-Facilities with Informal Actions	0	0
	1e2-Total Number of Informal Act	0	0

Metric ICIS TEMPO

• 1f1-Facilities with Formal Actions (Majors & Non-Maj)

34 37

- 1f2-Total # of Formal Actions (Majors and Non-Maj)
 34 40
- 2a1-Number of formal enf actions against major fac with enf violation type codes entered
 4/15=26%
 4
 15
- 7f1-Non-Majors in Category I Noncompliance 260 149
- 10a1-Major Facilities with Timely Actions as Appropriate MDE reported 0% for Metric 10a1.

State response

MDE notes that we have not committed to enter some RIDE data into ICIS-NPDES, including single wet weather events (such as SSO events) and CAFO inspections. MDE is continuing to negotiate with EPA Region III regarding the commitments for data entry for the RIDE elements. MDE can enter CAFO inspection data. MDE maintains a list of CSOs, SSOs, and bypasses on its webpage that EPA can use at any time to gather data about those single event violations.

MDE has advised EPA that it wants to discuss SEVs, EPA's interim wet weather SNC policy and economic benefit determinations to fully understand EPA's requirements and expectations. MDE will then develop plans for EPA review and approval that accurately describe what additional actions MDE will take to fulfill specific deliverables and the time lines to do so.

Recommendation

MDE should ensure entry of the minimum required data (MDR) elements (WENDB) for all major and non-major facilities regulated under the CWA-NPDES. Within six months of issuance of the SRF final report, MDE should develop a data management plan and SOP that addresses accurate entry of the minimum required data elements into the national database or state equivalent as appropriate and submit to EPA for review. In addition, MDE should work with EPA Region III to ensure the state possesses adequate capacity and provide MDE staff training to enter or upload all required minimum required data elements into the national database. EPA Region III, Water Protection Division (WPD) will monitor the improvement of the accuracy and completeness of MDE's MDR entry through existing quarterly enforcement management calls and other periodic data reviews conducted by EPA. If by December 30, 2015, EPA's reviews indicate that the revised

procedures are resulting in complete entry of MDR, the recommendation will be considered completed.

Element 2 — Data Accuracy: Accuracy of Minimum Data Requirements.

Finding **Area for State Improvement Description** The data metric analysis and file review determined that minimum NPDES compliance monitoring and enforcement data is not accurately reflected in the national data system. **Explanation** EPA's data metric analysis and file review determined that MDE does not accurately enter or upload the minimum required data elements into the national database. MDE accurately entered enforcement violation type codes approximately 26% of the time. In addition, EPA's file review determined that MDR elements for inspection and enforcement information were accurately reflected in the national database at a rate of 25%. The data discrepancies related to inaccuracies in the enforcement violation codes are attributed to data entry errors. Data discrepancies, missing MDR elements and/or inaccuracies were identified during the file review. Errors found during file reviews included failure to enter inspections and enforcement action data. Minimum data elements related to MS4 Phase I/II facilities are not entered in the national database. In addition, EPA identified data entry errors and/or failure to enter accurate inspection and enforcement information as contributing factors to MDE's low percentage of data accuracy. **Relevant metrics** Metric **ICIS TEMPO** 2a1 – Number of formal enforcement actions taken against majors with enforcement violation type codes entered 4/15=26% 15 2b (File Metric) – Percentage of files reviewed where data are accurately reflected in the national data system 12/48=25% **State response** In addition to the comments provided in element #1, MDE has advised EPA of the Department's intent to develop a node interchange to allow the electronic transfer from ICIS to MDE's TEMPO system and from TEMPO to ICIS. We have advised that when the node is completed it will assist MDE in inputting information into ICIS and show the information to MDE TEMPO users on a regular basis so that errors and missing information can be identified and corrected. Complete Element 1 recommendation to address accuracy of MDRs in Recommendation

the national database (see above). MDE should ensure entry of the

minimum required data elements (WENDB) for all major and non-major facilities regulated under the CWA-NPDES.

Element 3 — Timeliness of Data Entry: Timely entry of Minimum Data Requirements.

Finding	Area for State Improvement
Description	MDE entered or uploaded into the national database the minimum required data on a timely basis (as set forth by state and federal guidelines) in 17 of 48 files or 35.4% of the files reviewed by EPA.
Explanation	EPA's file review determined that MDE failed to consistently enter or upload the minimum data requirements into the national database on a timely basis. Required information not entered on a timely basis included MS4 Phase I major and Phase II non-major compliance monitoring/enforcement information, CAFO compliance monitoring/enforcement information, dates of compliance inspections, informal enforcement actions such as Notices of Violation, and formal enforcement action information. EPA's analysis of the timeliness of MDE's data entry included consideration of the distinction between the federal minimum data requirements for major and non-major facilities.
Relevant metrics	3a – Timeliness of mandatory data entered in the national data system: $17/48 = 35.4%$
State response	
Recommendation	Complete Element 1 Recommendation to address timely entry of MDRs into the national database (see above).

 ${\bf Element~4-Completion~of~Commitments:~Meeting~all~enforcement~and~compliance~commitments~made~in~state/EPA~agreements.}$

Finding	Area for State Improvement
Description	During the SRF review period of FY 2011, MDE did not complete all enforcement and compliance monitoring commitments as set forth in the 1989 EPA-MDE Memorandum of Agreement (MOA), the FY 2011-2013 Section 106 Grant Plan funded under MDE's Performance Partnership Grant (PPG), and the FY 2011 Compliance Monitoring Strategy (CMS) inspection commitments.
Explanation	Element 4 measures planned inspections completed (Metric 4a) and other planned compliance monitoring and enforcement activities completed (Metric 4b). The national goal for Element 4 as set forth in the SRF guidance is 100% of commitments should be met.
	MDE did not meet its compliance monitoring commitments under Metrics 4a6 and 4a7 which relate to MS4 facilities. MDE did not perform any inspections and/or audits at MS4 facilities during the FY2011 review period. Maryland has a universe of 11 MS4 Phase I and 93 Phase II facilities. In addition, MDE was unable to provide compliance monitoring data for SSO inspections (Metric 4a5), although MDE reported SSO inspections were conducted on an "as needed" basis which fulfills the federal CMS requirement. MDE completed the remaining compliance monitoring commitments as set forth under Metric 4a.
	Under Metric 4b, MDE met its enforcement and compliance commitments in 3/6 categories or 50% of MDE's FY 2011 commitments were met. EPA evaluated commitments made under the FY 2011-13 Performance Partnership Grant (106), 1989 EPA-MDE MOA, FY 2011 CMS, and the FY 2011 NPDES Permitting and Enforcement Work Plans and determined that MDE did not meet their overall inspection commitment for non-major general permits and MS4s. In addition, MDE did not meet minimum data requirements.
Relevant metrics	Metric Committed Completed
	4a5 – SSO inspections "as needed" "as needed"
	4a6 – Phase I MS4 audits or inspections 6 0
	4a7 – Phase II MS4 audits or inspections 13 0

4b – Other planned commitments completed

• 3/6=50%

Other Planned Commitments not met by MDE:

NPDES Data Entry, Accuracy and Completeness (MOA and PPG/106)

Penalties- Consideration of Economic Benefit (EPA-MDE Agreement Regarding NPDES and Water Pollution Civil and Administrative Enforcement Response)

Completion of SRF Round 2 Recommendations (106/NPDES CWA Plan)

State response

MDE will discuss detailed commitments under the CMS with EPA and it should be noted that MDE is not agreeing to meet the goals or follow every guidance or policy developed by EPA unless such requirement is discussed and specifically included in the CMS.

Recommendation

EPA Region III will review compliance monitoring and enforcement commitments with MDE and take the following actions to address areas where MDE failed to meet compliance/enforcement commitments. EPA will work with MDE to improve conformance with the 20014 federal CMS guidelines, and other MDE-EPA agreements containing compliance monitoring and enforcement commitments. EPA will work with MDE to determine appropriate CMS inspection commitments which meet the requirements of the 2014 EPA Revised CMS policy. EPA will work with MDE to identify partnering opportunities such as work sharing to improve MDE's compliance monitoring coverage of MS4 Phase I and Phase II facilities. Within 90 days of issuance of the SRF final report, MDE will develop and submit for EPA approval, a written plan to address any NPDES sector commitments in which MDE failed to meet its prior fiscal year CMS or other planned commitments. As component of the MDE's follow up activities under this SRF element, MDE and EPA finalized a Stormwater Work Plan in June 2014 which included comprehensive compliance monitoring strategies for the MS4 and stormwater programs. In addition, on August 8, 2014, MDE provided EPA with a MS4 Inspection and Annual Report SOP that further addresses the SRF findings under this element. Region III will consider the recommendation under Element 4 completed when MDE meets all CMS and other commitments upon review of the relevant fiscal year reporting of compliance monitoring and enforcement completed commitments.

Element 5 — **Inspection Coverage: Completion of planned inspections.**

Finding Area for S

Area for State Improvement

Description

MDE did not meet all of the specific FY2011 Compliance Monitoring Strategy (CMS) inspection commitments for its NPDES Major and Nonmajor universes.

Explanation

Element 5 addresses inspection coverage as reflected in the CMS. The number of NPDES Major facilities inspected in 2011 was 79 out of 90. This represents an 87.7% coverage rate for inspections of major facilities and far exceeded the national average of 54.4%. MDE met FY 2011 inspection commitments for traditional major facilities. For FY 2011, MDE inspected 250 out of a universe of 821 non-major individual permits or 30.45% which exceeded the national average of 23.7%, and met inspection CMS commitments for FY 2011. MDE performed 113 inspections of a universe of 2448 non-majors with general permits or approximately 4.6% which is below the national average of 19.2%, MDE does not meet the 2007 CMS goal of 10% of the state's universe for inspections of non-majors with general permits.

MDE did not complete planned inspections under Metrics 4a6 and 4a7 which addresses MS4 majors and non-majors. MDE committed to inspecting 6 MS4 Phase I facilities and 13 Phase II facilities in FY 2011. MDE did not perform any MS4 audits or inspections during FY 2011.

Relevant metrics

Metric

5a1 – Inspection Coverage NPDES Majors

Completed: 79/90=87.7%National average: 54.4%

5b1 – Inspection coverage – NPDES Non-Majors

Completed: 250/821=30.45%National average: 23.7%

5b2 – Inspection Coverage – NPDES Non-Majors/General Permits:

Completed: 113/2448=4.6%National average: 19.2%

4a6 – Phase I MS4 audits or inspections

Completed: 0=0%Committed: 6

State response	 4a7 – Phase II MS4 audits or inspections Completed: 0=0% Committed: 30
Recommendation	Complete Element 4 recommendations to address inspection commitments.

Element 6 — Quality of Inspection Reports: Proper and accurate documentation of observations and timely report completion.

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Area for State Attention

Description

EPA's FY 2011 file review determined that MDE inspection reports provide sufficient documentation to determine compliance; however, inspection reports are not routinely completed in a timely manner.

Explanation

Metric 6a addresses inspection reports reviewed that provide sufficient documentation to determine compliance at a facility. EPA reviewed 39 inspection reports and identified 35 (89.7%) reports that included sufficient information to support a compliance determination. There were four inspection reports that did not provide sufficient information as they lacked adequate supplemental narrative detailing violations or the necessary context with explanation to provide a nexus to violations identified through an inspection checklist.

Metric 6b addresses inspection reports completed within the prescribed timeframes of federal or state guidelines. The file review found 30 of 39 or 76.9% of inspection reports completed in a timely manner. MDE inspection reports reviewed did not routinely include inspection times, dates and signatures. Reviewers had difficulty determining the timeliness of inspection report completion due to lack of relevant information in the inspection report. Upon completion of the file review, MDE stated that many inspection reports in the files reviewed for the SRF were duplicates and MDE inspection protocol required inspection reports to be generated the same day as the inspection. MDE policy/guidance does not set forth a timeframe for completing inspection reports (EPA policy is 45 days from inspection date). The review team found the following SRF inspection report elements routinely missing from MDE inspection reports: date signed or completed, signature, time of entry, facility contact phone numbers, current NPDES permit number and status, and photo attachments.

Relevant metrics

6a – Inspection reports provide sufficient documentation to determine compliance:

• 35/39=89.7%

6b – Inspection reports completed within prescribed timeframe:

• 30/39 = 76.9%

State response

The WMA Compliance Program will begin including time of inspection on inspection reports and discuss the specifics about inspection reports further with EPA.

Recommendation

MDE should ensure that NPDES inspection reports include all required information as set forth by MDE guidance, EPA's 2004 NPDES Compliance Inspection Manual and the federal national NPDES program office. If determined to be necessary, MDE should revise the August 3, 2012 Inspection, Enforcement and Penalty Procedures for the Compliance Program in the Water Management Administration and/or MDE inspector manuals to include additional guidance addressing procedures for adequate substantiation or proof of violations in inspection reports and inspection report completion timeframes that comport with federal guidelines (45 days). On August 8, 2014, as a component of the MDE's follow up activities under this SRF element, MDE submitted a MS4 Inspection and Annual Report SOP to EPA that addresses the SRF findings under this element. EPA will work with MDE to assess the implementation of inspection report procedures and improvements. EPA will assess MDE's revisions through a remote desktop review of a limited sample of inspection reports. MDE should ensure that duplicates of original signed/dated NPDES inspection reports are available in the official enforcement file or record.

Element 7 — Identification of Alleged Violations: Compliance determinations accurately made and promptly reported in national database based on inspection reports and other compliance monitoring information.

Finding	Area for State Attention
Description	The EPA file review determined that MDE inspection reports consistently lead to accurate compliance determinations.
	The FY 2011 Data Metric Analysis for metric 7f1 (Non-Major Facilities in Category I noncompliance) identified a discrepancy between the facility number in ICIS (260) and MDE corrected number of 149.
Explanation	Metric 7e addresses inspections reports that led to accurate compliance determinations and reported compliance determinations in the national database in a prompt manner. MDE's inspection reports resulted in accurate compliance determinations in 34 out 39 or 87.2% of reports reviewed by EPA. Five MDE inspection reports did not include sufficient narrative information to supplement the inspection checklist in order to identify violations and allow an accurate compliance determination. In addition, the SRF review determined that MDE promptly enters compliance determinations for major and non-major waste water facilities into the national database. However, for other non-major NPDES-sector permits (e.g., CAFO, MS4, Industrial Stormwater, and Construction Stormwater) MDE does not promptly enter compliance determinations. The required compliance determination information for non-major facilities is entered and available through the state database systems.
	Data Metric 7f1 measures the number of non-major facilities in category 1 noncompliance. The FY 2011 frozen data set showed 260 facilities in ICIS for metric 7f1. MDE reported a corrected number of 149 facilities.
Relevant metrics	 7e – Percentage of inspection reports reviewed that led to an accurate compliance determination 34/39 = 87.2% 7f1 – Non-major facilities in category 1 noncompliance ICIS – 260
	• MDE – 149
State response	MDE will follow up with EPA as noted above.
Recommendation	MDE should work with EPA to ensure that inspection reports include all required information as set forth by MDE guidance, EPA's 2004 NPDES

Compliance Inspection Manual and the federal national NPDES program office. If determined to be necessary, MDE will revise the August 3, 2012 Inspection, Enforcement and Penalty Procedures for the Compliance Program in the Water Management Administration and/or MDE inspector manuals to include additional guidance addressing procedures for adequate substantiation or proof of violations in inspection reports. On August 8, 2014, as component of the MDE's follow up activities under this SRF element, MDE submitted a MS4 Inspection and Annual Report SOP to EPA that addresses the SRF findings under this element. EPA will work with MDE to assess the implementation of the revised inspection report procedures and improvements. EPA will assess MDE's revisions through a remote desktop review of a limited sample of inspection reports completed under the revised procedures. Complete Element 1 Recommendation to address data entry issue under data metric 7f1(see Element 1).

Element 8 — Identification of SNC and HPV: Accurate identification of significant noncompliance and high-priority violations, and timely entry into the national database.

noncompilance and	ingli priority violations, and inner only into the national databases
Finding	Area for State Improvement
Description	MDE compliance program has resulted in SNC rates for DMR violations significantly below the national average. MDE does not identify Single Event Violations (SEV) as SNC or non-SNC subsequent to compliance determinations based upon NPDES compliance inspections. SNC/SEV determinations are not reported in the national database.
Explanation	Data Metric 8a2 addresses the percent of major facilities in SNC. MDE identified 4.4% of major facilities (universe of 90 majors) in SNC during the FY 2011 review period. The national average for FY 2011 was 22.3%. File Metric 8b addresses the percentage of SEVs that are accurately identified as SNC or non-SNC. The file review identified nine instances of SEVs identified as a result of MDE compliance determination or identified by the SRF review team during its review of relevant inspection report. MDE accurately identified SNC or non-SNC in 1 out of 9 files or 11.1%. Seven facilities associated with SEV determinations were non-major facilities and therefore, non-SNC violations. The EPA review determined that MDE did not consistently implement SEV and SNC state and federal guidance.
	File Metric 8c addresses the percentage of SEVs identified as SNC that are reported timely at major facilities. MDE does not consistently identify SEV/SNC in their compliance determinations and therefore, SEVs identified as SNC are not reported in a timely manner. The EPA file review for this metric was limited to 2 (two) files in which 1 out of 2 files reported SEV-SNC in a timely manner. While MDE does not specifically identify SEV and SNC, this has not impacted MDE's ability to make accurate compliance determinations of
	impacted MDE's ability to make accurate compliance determinations of NPDES violations.
Relevant metrics	 8a2 – Percent of Major Facilities in SNC 4.4% National Average: 22.3%
	8b – Percentage of Major Facilities identified as SNC or non-SNC • 1/9=11.1%

8c – Percent of SEV's identified as SNC that are reported in a timely manner at major facilities

1/2=50%

State response

MDE will discuss detailed commitments under the CMS with EPA and it should be noted that MDE is not agreeing to meet the goals or follow every guidance or policy developed by EPA unless such requirement is discussed and specifically included in the CMS.

Recommendation

MDE should review the October 15, 2008 EPA ICIS-NPDES national data entry guidance for reporting SEV's and develop additional inspector guidance and training to ensure more accurate/consistent SEV compliance determinations. In addition, MDE should review EPA's September 21, 1995 SNC guidance and the October 2007 Interim Wet Weather SNC policy and develop additional inspector guidance and training to ensure more accurate and consistent SNC violation determinations. The MDE August 3, 2012 policy "Inspection, Enforcement and Penalty Procedures for the Compliance Program in the Water Management Administration" should be modified as appropriate to include more specific guidance for making accurate and consistent SEV and SNC compliance determinations. EPA will work to develop and provide SEV-SNC training for MDE compliance monitoring staff. As a component of the MDE follow up activities under this SRF element, MDE and EPA finalized a Stormwater Program Work Plan on June 17, 2014 which includes a commitment by MDE to develop an enforcement response policy for MS4 facilities. Within one year of issuance of the final SRF report, EPA will conduct a limited inspection file desk top reviews to assess improvements to MDE's SEV-SNC compliance determinations. In addition, within 180 days of issuance of the final SRF report, MDE should submit for EPA approval modified SEV/SNC inspector guidance. EPA will work with MDE to evaluate MDE policy addressing SEV/SNC identification and determinations, and consider the recommendation completed through EPA's annual Data Metric Analysis and supplemental desk top file review for the most recent complete fiscal year.

Element 9 — Enforcement Actions Promote Return to Compliance: Enforcement actions include required corrective action that will return facilities to compliance in specified timeframe.

Finding	Area for State Improvement
Description	MDE enforcement actions resulted in violators returning to compliance in a specified timeframe in 14 of 21 enforcement files reviewed by EPA.
Explanation	The majority of enforcement actions available to EPA's during the period of review were non-SNC violations at major and non-major facilities. File Review Metric 9a shows the percentage of enforcement responses that have returned or will return a major facility in SNC or non-SNC to compliance. MDE enforcement responses returned facilities to compliance or set forth a compliance schedule in 14 of 21 enforcement response or 66.7% of the time. The remaining files indicated that the 7 facilities remained in non-compliance following the enforcement response. However, the files did not provide adequate documentation to determine if failure to return to compliance was due to a need for additional injunctive relief or a lack of enforcement escalation to address reoccurring violations.
Relevant metrics	9a – Percentage of enforcement responses that return or will return source in SNC or non-SNC to compliance • 14/21= 66.7%
State response	The report noted several facilities with multiple inspections that noted violations but no enforcement action was taken. The Compliance Program's SOP requires referral of SNC cases to the Office of Attorney General if corrective actions are needed. Several of the facilities noted in the FY2011 SRF were forwarded to the OAG as required by the SOP when the SNC determination was made and although the violations were addressed with enforcement actions, the enforcement action may not have been issued within the FY2011 review period. In addition, facilities that were identified as SNC with no corrections needed such as single event violations were resolved with enforcement actions issued within the Compliance Program. Examples: The Town of Woodsboro was identified as SNC and the referral was forwarded to the OAG on April 9, 2011. A penalty settlement was issued of \$20,000 was issued to Woodsboro on September 8, 2011 to
	resolve violations that occurred during the period December 2008 – February, 2011. The enforcement action resolved the violation that

occurred during the aforementioned time frame but was issued after the FY2011 review period and would have been captured in FY2012 data. Galena WWTP was identified as SNC in 2009 and the case was forwarded to the OAG for handling. A consent order was fully executed June 2012.

W.R. Grace was identified as SNC in September 2012 and was issued a \$25,400 in penalty in October 2012 to resolve effluent violations and an unauthorized discharge.

Erachem Comilog, Inc. – September 11, 2013, MDE and Erachem Comilog executed a consent decree to address the implementation of improvements to comply with NPDES permit ENR limits. The consent decree includes the assessment of stipulated penalties for violation of permit limits during the pendency of the decree.

Recommendation

EPA recommends that MDE coordinate with EPA to identify recalcitrant facilities that present long-term noncompliance issues, and assess potential enforcement alternatives such as referring the case for federal enforcement support. In addition, MDE should review its August 3, 2012 policy "Inspection, Enforcement and Penalty Procedures for the Compliance Program in the Water Management Administration," and modify to include more specific guidance regarding enforcement escalation for ongoing noncompliance. Within six months of issuance of the final SRF report, MDE should submit for EPA approval a modified enforcement escalation policy. EPA will work with MDE to evaluate MDE policy addressing enforcement escalation, and consider the recommendation complete as verified through a limited desk top review of MDE enforcement files during Quarterly Enforcement Management (OEM) calls between EPA and MDE.

Element 10 — Timely and Appropriate Action: Timely and appropriate enforcement action in accordance with policy relating to specific media.

Finding	Area for State Attention	
Description	Based on the files reviewed, timely and appropriate enforcement actions were taken by MDE in accordance with policy and guidance.	
Explanation	EPA's data and file review for Element 8 found that MDE does not consistently identify SEVs as SNC and non-SNC. The majority of the files available for review for file Metric 10b which measures the state's enforcement responses that address SNC and non-SNC violations in a timely and appropriate manner were non-SNC violations. EPA determined that 18/21 or 85.7% of the FY 2011 enforcement actions addressed violations at major and non-major facilities with appropriate and timely enforcement responses.	
	Data Metric 10a1 measures enforcement actions against facilities that address violations at major facilities in a timely manner as determined from data entered into ICIS. As MDE does not enter the required minimum data elements to calculate this metric, the metric is assigned a value of 0% of enforcement actions completed in a timely manner.	
Relevant metrics	 10a1 – Majors with timely action as appropriate 0% National Goal – 98% 10b – Enforcement responses reviewed that address SNC and non-SNC violations in a timely and appropriate manner. 18/21/2=85.7% 	
State response	See previous response.	
Recommendation	Recommendations for addressing data metric 10a1 are located in Elements 1, 2 and 3 of the SRF report. See recommendation under Element 8 to address SEV-SNC determinations.	

Element 11 — Penalty Calculation Method: Documentation of gravity and economic benefit in initial penalty calculations using BEN model or other method to produce results consistent with national policy and guidance.

Finding	Area for State Improvement
Description	Documentation of penalty calculations was not found in the majority of the files reviewed. Where penalty calculations were available, economic benefit was not considered.
Explanation	In three of the seventeen files reviewed MDE calculated gravity; however, EPA's review determined that MDE failed to consider economic benefit in 0 of 17 of its penalty calculations.
Relevant metrics	11a – Penalty calculations reviewed that consider and include gravity and economic benefit: • 0/17=0%
State response	
Recommendation	Within 90 days of issuance of the final SRF report, MDE should ensure that all NPDES enforcement actions are evaluated for gravity and economic benefit (utilizing the Benefit of Economic Noncompliance (BEN) model or the state equivalent and consistent with federal policy). In addition, MDE should ensure that each penalty evaluation is documented in the enforcement action's penalty calculations. MDE should review and train enforcement staff on the requirements of EPA's 1995 "Interim CWA Settlement Penalty Policy" and MDE's relevant penalty procedures guidance. EPA will review a random selection of formal enforcement actions with penalties during MDE's Quarterly Enforcement Management call to assess progress in implementation of the SRF recommendations. If by June 1, 2015, MDE shows sufficient improvement for the consideration
	and documentation of gravity and economic benefit in penalty calculations, the recommendation will be considered complete.

Element 12 — Final Penalty Assessment and Collection: Differences between initial and final penalty and collection of final penalty documented in file.

Finding	Area for State Improvement
Description	MDE does not routinely include penalty calculation worksheets in the enforcement case files. The majority of enforcement actions with penalties reviewed by EPA documented the collection of final penalties.
Explanation	Metric 12a measures the percentage of enforcement actions that documented the difference and rationale between the initial and final penalty assessed. EPA's file review identified differences in the initial and final penalty and collection of final penalty payment in 8 of 17 or 47.1% of the enforcement files reviewed. MDE does not routinely include penalty calculation worksheets in the enforcement case files. MDE does have a penalty calculation form available for staff use when calculating a penalty.
	Metric 12b measures the percentage of enforcement files reviewed that document the collection of a final penalty. EPA's file review determined that MDE enforcement files contained documentation of final penalty payment in 14 of 17 or 82.4% of the files reviewed.
Relevant metrics	Metric 12a – Documentation of the difference between the initial and final penalty and rationale • 8/17=47.1%
	12b – Penalties collected • 14/17=82.4%
State response	The WMA Compliance Program modified the "Inspection, Enforcement and Penalty Procedures for the Compliance Program in the Water Management Administration" and is working to comply with this requirement.
Recommendation	The round 1 and 2 SRF review previously identified MDE's failure to adequately document penalties in accordance with federal and state guidance. MDE should develop a SOP or revise current state policy for calculating penalties which include gravity and economic benefit, documentation of assessed and final penalty calculations, and a record retention policy to assure compliance with State and federal requirements. Within six months of issuance of the final SRF report, MDE should develop and submit for EPA approval a SOP and/or perform policy modifications to the August 3, 2012 MDE policy

"Inspection, Enforcement and Penalty Procedures for the Compliance Program in the Water Management Administration" to address calculation of penalties including documentation of the assessed and final penalty, capturing economic benefit when appropriate, and record retention requirements. EPA will conduct a desk top file review of a random selection of formal enforcement actions with penalties during MDE's QEM to assess progress in implementation of the SRF recommendations. If by June 30, 2015, MDE shows sufficient improvement for the consideration of economic benefit, documentation of the difference in assessed and final penalties as well as providing penalty calculations in the enforcement file, the recommendation will be considered complete.

Clean Air Act Findings

Element 1 — Data Completeness: Completeness of Minimum Data Requirements.		
Finding 1-1	Meets Expectations	
Description	MDE has ensured that minimum data requirements (MDRs) were entered into the AFS.	
Explanation	Element 1 of the SRF is designed to evaluate the extent to which the State enters MDRs into the national data system. No issues were identified for Element 1 in the Data Metric Analysis (DMA).	
Relevant metrics	Element 1 includes 33 data verification metrics which the State has the opportunity to verify annually. For the sake of brevity, these metrics were not listed here, but can be found in the DMA in Appendix A.	
State response		
Recommendation	None	

Element 2 — Data Accuracy: Accuracy of Minimum Data Requirements (MDRs).

Finding 2-1 Area for State Attention

Description 23 of the 27 files reviewed had accurate MDR data reflected in the Air

Facility System (AFS).

Explanation Data from four files was not consistent with what was reported to

AFS. One file listed a Partial Compliance Evaluation (PCE), however a

Full Compliance Evaluation (FCE) was incorrectly reported to

AFS. The other three files had incorrect inspection dates reported to AFS. This is occurring when FCEs are performed at gas stations by an MDE contractor. The contractor does not submit the inspection reports timely to MDE. Upon receipt, MDE reviews the report and enters the date of receipt in AFS instead of the actual inspection date. This results in inconsistencies between the data in the enforcement file and what is reported to AFS. MDE confirmed during the on-site file review that the contractor would be submitting the inspection reports timely and that

staff was instructed to enter the actual inspection date in AFS.

Relevant metrics 2b – Accurate MDR Data in AFS: 23/27 = 85.2%

(National Goal = 100%)

State response

Recommendation None

Element 3 — Timeliness of Data Entry: Timely entry of Minimum Data Requirements (MDRs).

Finding 3-1	Meets Expectations
Description	MDE enters the majority (> 90%) of the data required under the MDRs in a timely manner.
Explanation	MDE is well above the national average and is near the national goal of 100% for the relevant metrics under element 3.
Relevant metrics	3b1 – Timely reporting of compliance monitoring minimum data requirements: 243/248 = 98% (National Goal: 100%; National Average: 78.60%) 3b2 – Timely reporting of stack test minimum data requirements: 56/62 = 90.3% (National Goal: 100%; National Average: 75.50%) 3b3 – Timely reporting of enforcement minimum data requirements: 48/49 = 98% (National Goal: 100%; National Average: 76.10%)
State response	
Recommendation	None

Element 4 — Completion of Commitments: Meeting all enforcement and compliance commitments made in state/EPA agreements.

Finding 4-1	Meets Expectations
Description	MDE met their enforcement and compliance commitments outlined in their FY2010/11 Compliance Monitoring Strategy (CMS) Plan and their October 2005 Memorandum of Understanding (MOU).
Explanation	Element 4 evaluates whether the State met its obligations under the CMS plan and the MOU with MDE. MDE follows a traditional CMS plan, which requires them to conduct a full compliance evaluation (FCE) every two years at Major sources and every five years at Synthetic Minor 80 (SM-80) sources. MDE met these obligations by completing 100% of planned FCEs at Major sources and over 100% of planned evaluations at SM80 sources.
Relevant metrics	In addition, MDE met all of their enforcement and compliance commitments (100%) for FY 2011under their October 2005 MOU with EPA Region III. Therefore, this element "Meets Expectations". 4a1 – Planned evaluations completed: Title V Major FCEs: 59/59 =
Relevant metrics	 4a1 - Planned evaluations completed. The V Major PCEs. 39/39 - 100% 4a2 - Planned evaluations completed: SM-80 FCEs: 56/34 = 164.7% 4b - Planned commitments completed: CAA compliance and enforcement commitments other than CMS commitments: 9/9 = 100%
State response	
Recommendation	None

Element 5 — Inspection Coverage: Completion of planned inspections.

Finding 5-1 Meets Expectations

Description MDE met the negotiated frequency for compliance evaluations of CMS

sources and reviewed most Title V Annual Compliance Certifications.

Explanation MDE met or exceeded national goals and/or was above the national

average for all data metrics within this element.

Data metric 5e indicates that 94.4% of the required Title V Annual Compliance Certification (ACC) reviews were completed. EPA

guidance indicates that in general, state performance is acceptable when it is within 90% or greater of the national goal. Therefore, MDE met the national goal for all of the relevant metrics, and this element "Meets

Expectations".

Relevant metrics 5a – FCE Coverage Major: 57/57 = 100% (National Goal: 100%;

National Average: 90%)

5b – FCE Coverage SM-80: 52/52 = 100% (National Goal: 100%;

National Average: 90.60%)

5e – Review of Title V Annual Certifications Completed: 117/124 =

94.4%

(National Goal: 100%; National Average: 72.50%)

State response

Recommendation None

Element 6 — Quality of Inspection Reports: Proper and accurate documentation of observations and timely report completion.

Finding 6-1 Area for State Improvement

Description Compliance monitoring reports (CMRs) did not always include

compliance/enforcement history.

Explanation With the exception of the compliance/enforcement history section, the

CMRs were well written. The six files that did not include all of the elements required under § IX of the CMS were only missing the

compliance/enforcement history.

Relevant metrics 6a - Documentation of FCE elements: <math>9/15 = 60%

(National Goal = 100%)

State response MDE (ARMA) has implemented this recommendation. All reports now

contain an enforcement history section.

Recommendation In accordance with the CMS Policy, MDE should add an Enforcement

History section to the CMR template within six months of the date of this report. Region 3 will follow-up within six months to ensure the Enforcement History section has been added to the CMR template and that MDE is completing it. Region 3 will conduct these evaluations on a

quarterly basis until MDE has addressed the issue.

Element 6 — Quality of Inspection Reports: Proper and accurate documentation of observations and timely report completion.

Finding 6-2Meets ExpectationsDescriptionAll FCEs reviewed had documentation in the files indicating that they contained all of the elements of the FCE, per the CMS.ExplanationAll 15 FCEs reviewed contained sufficient information in the CMR and/or the files to make a compliance determination and met the definition of an FCE, per the CMS.Relevant metrics6b -CMRs or facility files reviewed that provide sufficient documentation to determine compliance of the facility: 15/15 = 100% (National Goal = 100%)State response

Recommendation

None

Element 7 — Identification of Alleged Violations: Compliance determinations accurately made and promptly reported in national database based on inspection reports and other compliance monitoring information.

Finding 7-1	Area for State Attention
Description	The majority (88.2%) of the violations were accurately and promptly reported to AFS. 15 of 17 Tier 1 sources that received an informal enforcement action during FY2011 had a compliance status of either "in violation" or "meeting schedule" recorded in AFS during FY2011.
Explanation	There were two Tier 1 sources that received an informal enforcement action during FY2011 and did not have a compliance status of either "in violation" or "meeting schedule" recorded in AFS during FY2011. Both of the sources were Synthetic Minor (SM) sources.
	This situation does not constitute a significant pattern of deficiencies. Therefore, this is designated as an "Area for State Attention".
Relevant metrics	7b1 – Alleged violations reported per informal enforcement actions (Tier 1 only): 15/17 = 88.2%
State response	
Recommendation	None

Element 7 — Identification of Alleged Violations: Compliance determinations accurately made and promptly reported in national database based on inspection reports and other compliance monitoring information.

Finding 7-2	Meets Expectations
Description	With the exception of informal enforcement actions issued during FY2011 (see finding 7-1), all other violations and CMRs and/or facility files reviewed were accurately reported in AFS.
Explanation	All CMRs and/or facility files reviewed, failed stack tests reviewed and High Priority Violators (HPVs) identified had accurate compliance determinations reported in AFS.
Relevant metrics	 7a - Accuracy of compliance determinations: 15/15 = 100% 7b2 - Alleged violations reported per failed stack tests: 1/1 = 100% (National Average = 54%) 7b3 - Alleged violations reported per HPV identified: 6/6 = 100% (National Goal: 100%; National Average: 69.60%)
State response	
Recommendation	None

Element 8 — Identification of Significant Non-Compliers (SNC) and HPV: Accurate identification of significant noncompliance and high-priority violations, and timely entry into the national database.

Finding 8-1 Meets Expectations

Description MDE does a thorough job in making HPV determinations and reporting

HPVs to AFS in a timely manner.

Explanation SRF Rounds 1 and 2 preliminary data analyses (PDAs) had indicated a

potential problem in identifying HPVs and applying the HPV policy to violations that received informal enforcement actions at major sources. The EPA Review Team reviewed supplemental files in SRF Round 3 to ensure that this was not a problem. File review metric 8c indicated that 94.4% of the violations reviewed during the SRF Round 3 file review were accurately determined to be HPV or non-HPV violations. EPA guidance indicates that, in general, state performance is acceptable when it is within 90% or greater of the national goal. Therefore, MDE met the national goal for the relevant metric, and this element meets

expectations.

Relevant metrics 3a1 – Timely entry of HPV determinations: 6

3a2 – Untimely entry of HPV determinations: 1

(National Goal = 0)

8a - HPV discovery rate per major source universe: 6/121 = 5%

(National Average = 3.90%)

8c – Accuracy of HPV determinations: 17/18 = 94.4%

(National Goal = 100%)

State response

Recommendation None

Element 9 — Enforcement Actions Promote Return to Compliance: Enforcement actions include required corrective action that will return facilities to compliance in specified timeframe.

Finding 9-1	Meets Expectations
Description	Enforcement actions include required corrective action that will return facilities to compliance in a specified timeframe. MDE includes corrective actions in formal enforcement responses, where applicable.
Explanation	All enforcement action files reviewed (11/11) returned the source to compliance. For enforcement actions that were penalty only actions, the files documented the actions taken by the facility to return to compliance prior to issuance of the order.
Relevant metrics	9a: Formal enforcement returns facilities to compliance: $11/11 = 100\%$. (National Goal = 100%)
State response	
Recommendation	None

Element 10 — Timely and Appropriate Action: Timely and appropriate enforcement action in accordance with policy relating to specific media.

Finding 10-1 Meets Expectations

Description MDE takes timely and appropriate enforcement actions consistent with

the HPV policy.

Explanation All HPV related enforcement actions reviewed during the file review

indicated that MDE takes timely enforcement actions for HPVs. In addition, data metric 10a shows that MDE is well above the national average in addressing HPVs in a timely manner as per the HPV policy. The only HPV not addressed in a timely manner was a state-owned facility. The delay in addressing the HPV was due to the time it took to negotiate a supplemental environmental project and then obtain the budget and funding approval. This was considered an isolated incident and not a significant pattern of deficiencies. Therefore, this element

"Meets Expectations".

Relevant metrics Data Metric 10a – HPV cases which meet the timeliness goal of the

HPV policy: 6/7 = 85.7% (National average 63.7%) (National Goal =

100%)

File Review Metric 10a - Timely action taken to address HPVs:

5/5 = 100%

Metric 10b – Appropriate enforcement responses for HPVs: 5/5 =

100%

State response

Recommendation None

Element 11 — Penalty Calculation Method: Documentation of gravity and economic benefit in initial penalty calculations using Economic Benefit of Noncompliance (BEN) model or other method to produce results consistent with national policy and guidance.

Finding 11-1	Area for State Improvement
Description	Seven of nine files reviewed included gravity and economic benefit in initial penalty calculations.
Explanation	One (1) file did not include the rationale for the gravity benefit calculation. Another file did not include the rationale for both the economic and gravity components of the initial penalty calculation.
Relevant metrics	11a – Penalty calculations reviewed that consider and include gravity and economic benefit: $7/9 = 77.8%$
State response	MDE (ARMA) has already implemented this section. All initial penalty calculations will be documented.
Recommendation	MDE's Enforcement Procedure, dated October 23, 2008, requires that penalties incorporated in the formal enforcement action should, where possible, recover the economic benefit of noncompliance and include an amount reflecting the gravity of the violation. Within 6 months of the date of this final report, MDE should have a template in place to document initial penalty calculations (gravity and economic benefit included) for actions referred administratively or civilly.

Element 12 — Final Penalty Assessment and Collection: Differences between initial and final penalty and collection of final penalty documented in file.

Finding 12-1	Area for State Improvement
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Description Only two of the seven files reviewed documented initial penalty

calculations.

Explanation The EPA penalty policy requires documentation of how adjustments were

made to the preliminary deterrence amount so that enforcement attorneys, program staff and their managers learn from each other's experience and promote the fairness required by the penalty policy five of the seven files reviewed did not include documentation on the difference between the initial and final assessed penalty nor any rationale for that difference. It was clear from the file reviews and interviews with the staff that the rationale between the initial and final assessed penalty was not typically documented in the enforcement files. Therefore, the EPA Review Team interviewed an MDE attorney to determine if the documentation existed in the attorneys' files. The MDE attorney files had brief notes from the negotiations between MDE and the sources, but nothing that clearly documented the rationale for the differences between initial and final assessed penalties. The MDE attorney stated that this is typical in most

cases. Therefore, this element is designated for "State Improvement".

Relevant metrics 12a – Documentation on difference between initial and final penalty and

rationale: (2/7 = 28.6%) (National Goal = 100%)

State response MDE cannot agree with this recommendation. The difference between the

initial and the final penalty amount is the result of the negotiation process that takes place between the agency and the violator. There are not discrete elements of the negotiation process one can point to that lend themselves to monetary quantification. If EPA has examples of documentation methods that are acceptable, whether they are internal to EPA or the Justice Department or a tool used by other states, we would be interested in

reviewing them.

Recommendation

Within six months of the date of this final report, MDE should have an SOP and template for documenting the difference between the initial and final penalty. It should clearly explain why adjustments were made to the initial deterrence amount. Region 3 will follow-up within one year to determine if the problem has been addressed and will continue to follow-up biannually until the issue is resolved.

Element 12 — Final Penalty Assessment and Collection: Differences between initial and final penalty and collection of final penalty documented in file.

Finding 12-2	Meets Expectations
Description	MDE's files contain complete documentation for the collection of penalties.
Explanation	In the eight files reviewed with penalties collected, there were copies of both the invoices and the checks from the companies.
Relevant metrics	12b – Penalties collected: 8/8 = 100% (National Goal = 100%)
State response	
Recommendation	None

Resource Conservation and Recovery Act Findings

Element 1 — Data Completeness: Completeness of Minimum Data Requirements.	
Finding 1-1	Area for State Improvement
Description	In 63% of the files reviewed, all mandatory data were accurately reflected in RCRAInfo. The RCRA reviewers found inaccurate data entry related to 11 of 30
Explanation	files reviewed. The single biggest issue was the failure to enter SNC data into RCRAInfo - this was found in 9 of the files reviewed. Please see Finding 2-1 for details on data accuracy issues related to non-SNC data.
Relevant metrics	1a1 - Number of operating TSDFs: 11 1a2 - Number of active LQGs: 461 1a3 - Number of active SQGs: 4329 1a4 - All other active sites: 4036 1a5 - Number of BR LQGs: 107 1b1 - Number of sites inspected: 95 1b2 - Number of inspections: 103 1c1 - Number of sites with new violations during the review year: 13 1c2 - Number of sites in violation at any time during the review year regardless of determination date: 24 1d1 - Number of sites with informal enforcement actions: 9 1d2 - Number of informal enforcement actions: 9 1e1 - Number of sites with new SNC during year: 0 1e2 - Number of sites in SNC regardless of determination date: 9 1f1 - Number of sites with formal enforcement action: 10 1f2 - Number of formal enforcement actions: 10 1g - Total dollar amount of final penalties: \$54,850 1h - Number of final formal actions with penalty in last FY: 3
State response	IT had been working on the Node to automatically connect TEMPO to RCRA Info, but it still doesn't work, and there are also reportedly still issues with the RCRA data handler portion that uploads hazardous facility ID numbers. Consequently, we are going to have to keep entering data into RCRA Info manually, and this takes a couple of months.
Recommendation	Within 90 days of the issuance of this report, the State will develop and submit to EPA procedures to improve data entry with added emphasis on

SNC data entry. EPA will monitor SNC data through quarterly data analysis. The recommendation will be closed once MDE demonstrates complete and accurate data entry.

Element 2 — Data Accuracy: Accuracy of Minimum Data Requirements.

Finding 2-1 Area for State Improvement

Description In 63% of the files reviewed, all mandatory data were accurately

reflected in RCRAInfo.

Explanation We found inaccurate data entry related to 11 of 30 files reviewed. The

single biggest issue was the failure to enter SNC data into RCRAInfo - this was found in 9 of the files reviewed. Other data accuracy issues

were:

- Inaccurate entry of inspection date (one instance)

- Inaccurate entry of enforcement action date (two instances)

- Inspection record entered twice into RCRAInfo (one instance)

- Inspection record not entered into RCRAInfo (one instance)

- Enforcement action not entered into RCRAInfo (two instances)

Relevant metrics 2a - Long-standing secondary violators

State metric: 4

2b - Accurate entry of mandatory data

National Goal: 100% State metric: 63%

State response Please see comment above in Element #1.

Recommendation Please see Recommendation associated with Finding 1-1.

Element 3 — Timeliness of Data Entry: Timely entry of Minimum Data Requirements.

Finding 3-1 Meets Expectations

Description All data appears to be entered in a timely manner.

Explanation We found no issues related to timeliness of data entry.

Relevant metrics 3a - Timely entry of mandatory data

National Goal: 100% State metric: 100%

State response

Recommendation

${\bf Element~4-Completion~of~Commitments:~Meeting~all~enforcement~and~compliance~commitments~made~in~state/EPA~agreements.}$

Finding 4-1	Area for State Improvement
Description	The State met the majority of their grant commitments.
Explanation	The RCRA reviewers found inaccurate data entry related to 11 of 30 files reviewed, so the State did not completely meet the commitment related to entry of all required data into RCRAInfo. For those files with inaccurate data entry, the inaccuracy was related to only one or two pieces of data - the vast majority of all required data was entered accurately.
Relevant metrics	 4a - Planned non-inspection commitments completed: 83% - Provide compliance assistance (newly regulated handlers, handlers subject to new regulations, priority industrial sectors) - commitment met - Take timely and appropriate enforcement action - commitment met - Enter all required data into RCRAInfo - commitment not met - Conduct Financial Assurance evaluations of specified facilities - commitment met - Encourage voluntary disclosure and correction of violations - commitment met - Conduct five Compliance Assistance Activities - commitment met Data entry concerns are covered in more detail under Elements 1 and 2 Findings.
State response	Please see comment in Element #1.
Recommendation	Please see Recommendation associated with Finding 1-1.

Element 5 — **Inspection Coverage: Completion of planned inspections.**

Finding 5-1 Area for State Attention

Description The State met the two-year inspection coverage goal for TSDFs, and

(combined with EPA) exceeded the national average for annual and five-

year inspection coverage for LQGs.

Explanation The State inspected 100% of their operating TSDFs over the two-year

period. The State and EPA combined efforts to meet the annual inspection goal for LQGs during the review period. The State and combined metrics exceeded the national average for five-year LQG inspection coverage. The FY12 metrics show improvement in this area, with the State metric as 80.4% and the combined metric at 88.8%, which substantially exceeds the national averages for five-year LQG inspection

coverage.

Relevant metrics 5a - Two-year inspection coverage for operating TSDFs

National Goal: 100%

National State Average: 89.4% National Combined Average:

94.2%

State metric: 100% Combined metric: 100%

5b - Annual inspection coverage for LQGs

National Goal: 20%

National State Average: 22.6% National Combined Average:

24.7%

State metric: 19.6% Combined metric: 27.1%

5c - Five-year inspection coverage for LQGs

National Goal: 100%

National State Average: 62.9% National Combined Average:

67.6%

State metric: 74.8% Combined: 83.2%

5d - Five-year inspection coverage for active SQGs: 2.0%

5e1 - Five-year inspection coverage at CESQGs: 62

5e2 - Five-year inspection coverage at Transporters: 13

5e3 - Five-year inspection coverage at Non-notifiers: 1

5e4 - Five-year inspection coverage at other sites: 314

State response

Recommendation

Element 6 — Quality of Inspection Reports: Proper and accurate documentation of observations and timely report completion.

Finding 6-1	Area for State Improvement
Description	In 30% of the files reviewed, inspection reports did not contain sufficient documentation to verify the compliance determination.
Explanation	There were eight inspection reports (out of 27 reviewed) with insufficient documentation to determine compliance. The inspection narratives were found to contain conclusions, but did not include the observations upon which these conclusions had been based. In addition, in one of the eight inspections discussed above, the narrative indicated that there was no record of weekly inspection, but goes on to state that there was no violation (failure to perform weekly inspections at a LQG is a violation).
	Inspection reports, document the date that that the inspection was performed, but do not include the date on which the report was finalized, therefore, we were unable to determine the length of time it took for each report to be prepared. We did not see anything to suggest that reports are not completed in a timely manner (based on the date of supervisory review).
Relevant metrics	6a - Inspection reports complete and sufficient to determine compliance National Goal: 100%

National Goal: 100% State metric: 70%

6b - Timeliness of inspection report completion

National Goal: 100%

State metric - No data available

State response

EPA is concerned that MDE is not always conducting complete inspections, and is not conducting "process-based" inspections, where MDE follows the industrial process through the facility, but are instead just going to the 90-day waste storage areas, and other low-hanging fruit.

As an example, in May EPA asked for copies of 25 inspection reports, and in two of them, at sites that EPA had also inspected within the last couple of years, they noted that the MDE inspector did not apparently visit some of the parts of the facility that EPA inspected. It was not clear whether we didn't inspect the whole facility, or we did not include observations of those areas in the report; either way, it is a problem. In another instance where MDE attended an inspection with EPA, the MDE

inspector observed that they hadn't been to a certain part of the plant before.

EPA is also concerned about follow-up inspections where we visited a site and no one was there or couldn't get access. MDE believes that we revisit these within 60 days, however, EPA cannot get the information on re-inspections in RCRA Info right away, therefore, EPA doesn't know whether we've done it or not.

MDE believes that while we have improved a great deal, there is much value in what EPA has to tell us. Therefore, we are going to have a meeting with EPA, to go over the reports and determine areas where we can improve, and to discuss the focus on quality over speed.

Recommendation

Within 90 days of final report issuance, the State will develop and submit to EPA procedures to improve the quality of inspection reports. The procedures will require inclusion of observations in each inspection narrative. EPA will review inspection reports developed under the improved procedures, (over a six month period) and the recommendation will be closed once MDE demonstrates that inspection reports contain sufficient documentation to verify compliance determinations.

Element 7 — Identification of Alleged Violations: Compliance determinations accurately made and promptly reported in national database based on inspection reports and other compliance monitoring information.

Finding 7-1 Area for State Improvement

Description In 30% of the files reviewed, inspection reports did not contain sufficient

documentation to verify the compliance determination.

Explanation As 30% of inspection reports did not contain sufficient documentation to

verify the compliance determination, we are not able (for these facilities) to confirm that compliance determinations have been accurately made. In addition, data review reveals that the State's violation determination rate is less than half of the national average; these two metrics suggest

that compliance determinations may not all be accurate.

Relevant metrics 7a - Accurate compliance determinations

National Goal: 100% State metric: 70%

7b - Violations found during inspections

National State Average: 32.5%

State metric: 14%

State response

Recommendation Please see Recommendation associated with Finding 6-1.

Element 8 — Identification of SNC and HPV: Accurate identification of significant noncompliance and high-priority violations, and timely entry into the national database.

Description It appears that SNC violators are being accurately identified, but data

entry of this information is a concern (see Elements 1 and 2).

Explanation While no SNCs were entered into RCRAInfo for the review period, we

found that appropriate enforcement actions were taken in response to violations in the vast majority of cases; we believe this issue is more of a data management problem than a SNC identification problem. Twelve files were reviewed which had inspections performed during the review period identifying violations; two of these were determined to be SV, the

other 10 were determined to be SNC:
- In nine instances, formal enforcement action was taken in response to

violations during the review period (no SNC was entered into

RCRAInfo).

- In one instance, we believe a SNC designation should have been made, as the facility was inspected three times, yet did not demonstrate a return

to compliance.

Relevant metrics 8a - SNC identification rate

National State Average: 2.1%

State metric: 0%

8b - Timeliness of SNC determinations

National State Average: 81.7%

State metric: 0/0

8c - Appropriate SNC determinations

National Goal: 100% State metric: 17%

State response

Recommendation Timely and accurate SNC identification is essential to assure significant

compliance problems are addressed in a prompt manner, and correct data is available to the public concerning problem facilities in their community. Within 90 days of the issuance of this report, the State will develop and submit to EPA procedures to improve data entry with added emphasis on SNC data entry. EPA will monitor SNC data through quarterly data analysis. The recommendation will be closed once MDE

demonstrates complete and accurate data entry.

Element 9 — Enforcement Actions Promote Return to Compliance: Enforcement actions include required corrective action that will return facilities to compliance in specified timeframe.

Finding 9-1 Meets Expectations

Description All enforcement actions required corrective action to return facilities to

compliance, where appropriate.

Explanation Sixteen enforcement actions finalized during the review period were

examined. Thirteen contained injunctive requirements addressing all violations. In the other three cases, return to compliance had been demonstrated or documented prior to the enforcement action being

finalized.

Relevant metrics 9a - Enforcement that returns SNC sites to compliance

National Goal: 100% State metric: 100%

9b - Enforcement that returns SV sites to compliance

National Goal: 100% State metric: 100%

State response

Recommendation

Element 10 — Timely and Appropriate Action: Timely and appropriate enforcement action in accordance with policy relating to specific media.

Finding 10-1 Area for State Attention

Description Appropriate enforcement actions were taken in all but one instance.

Explanation Fifteen files were reviewed which had violations and/or enforcement

actions during the review period. We found only one instance where violations may not have been addressed with an appropriate enforcement action; the facility was inspected three times, yet did not demonstrate a return to compliance, so formal enforcement would appear to the

appropriate response.

Relevant metrics 10a - Timely enforcement taken to address SNC

National State Average: 81.8%

State metric: 0/0

10b - Appropriate enforcement taken to address violations

National Goal: 100% State metric: 93%

State response

Recommendation

Element 11 — Penalty Calculation Method: Documentation of gravity and economic benefit in initial penalty calculations using BEN model or other method to produce results consistent with national policy and guidance.

Finding 11-1	Area for State Improvement
Description	Documentation of penalty calculations was not found in the majority of the files reviewed. Only one file contained both gravity and economic benefit.
Explanation Relevant metrics	 Files documenting consideration of both gravity and economic benefit in the penalty calculation: 1/13 (8%) Files documenting consideration of gravity (but not economic benefit) in the penalty calculation: 3/13 (23%) Files not containing documentation of penalty calculation: 9/13 (69%) 11a - Penalty calculations include gravity and economic benefit National Goal: 100% State metric: 8%
State response	
Recommendation	Within 180 days of the issuance of this report, the State will develop and submit to EPA procedures to enhance documentation of penalty calculations, and assure that both economic benefit of noncompliance and gravity of violation is considered in penalties. The recommendation will be closed out once MDE demonstrates compliance with their enhanced procedures.

Element 12 — Final Penalty Assessment and Collection: Differences between initial and final penalty and collection of final penalty documented in file.

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Finding 12-1	Area for State Attention
Description	There is often no difference between initial and final assessed penalties. In those instances where there is a difference, documentation between these amounts was found in the files in the majority of the cases. The large majority of penalty payments were documented.
Explanation	Four instances were identified where there was a difference between the initial and final penalty. In three of those four instances, documentation was in the file regarding the rationale for the final value assessed compared to the initial penalty. In one additional case, we were unable to determine the final penalty. In summary, three of five files contained documentation on the difference between the initial and final penalty. Thirteen instances were identified with (final) formal enforcement action requiring penalty payment. In eleven instances, the files contained documentation of penalty payment. For one of the two instances where penalty payment was not documented, the final penalty amount was not clear. In summary, 11 of 13 files contained documentation of penalty collection.
Relevant metrics	 12a - Documentation on difference between initial and final penalty National Goal: 100% State metric: 60% 12b - Penalties collected National Goal: 100% State metric: 85%
State response	
Recommendation	Within 180 days of the issuance of this report, the State will develop and submit to EPA procedures to enhance documentation of penalty calculations, including documentation of the difference between initial and final penalty. The recommendation will be closed out once MDE demonstrates compliance with their enhanced procedures.

Appendix A: Data Metric Analysis

Attached below are the results of the SRF data metric analyses. All data metrics are analyzed prior to the on-site file review. This provides reviewers with essential advance knowledge of potential problems. It also guides the file selection process as these potential problems highlight areas for supplemental file review.

The initial findings are preliminary observations. They are used as a basis for further investigation during the file review and through dialogue with the state. Where applicable, this analysis evaluates state performance against the national goal and average. Final findings are developed only after evaluating the data alongside file review results and details from conversations with the state. Through this process, initial findings may be confirmed or modified. Final findings are presented in Section III of this report.

Appendix A: Data Metric Analysis

Clean Water Act

				Natl	Natl	Maryla		Univers	Not	Initial	Final Finding	
Metric	Metric Name	Metric Type	Agency	Goal	Avg	nd	Count		Cntd	Findings	State	Explanation
												MDE verified 79 active major traditional
												facilities and 11 MS4 Phase I majors. 2
												majors permits inactive in ICIS-
	Number of											Cascades Canada Inc MD 006697 and
	Active NPDES											Berlin Properties North MD0002071.
	Majors with											Compliance for Cascade turned off
	Individual	Data								Supplemental	90	9/1/2010 and 10/1/10 for Berlin Verified
1a1	Permits	Verification	State			93				Review.		data counted 92.
			EPA			0						
	Number of											All General Permits are non-major.
	Active NPDES											Permits that would be classified as
	Majors with	Data								Supplemental		Majors would be issued as individual
1a2	General Permits	Verification	State			0				Review		permits.
			EPA			0						

1a3	Number of Active NPDES Non-Majors with Individual Permits	Data Verification	State			825				Supplemental Review	821	Total count verified of 821 individual permits: 505 industrial/municipal permits and 316 individual stormwater permits.
	Number of		EPA			0						
1a4	Active NPDES Non-Majors with General Permits	Data Verification	State			2247				Supplemental Review	2448	MDE verified 2448 non-major general permits.
			EPA			0						
1b1	Permit Limits Rate for Major Facilities	Goal	State	≥ 95%	98.6%	95.7%	89	93	4			
				<u>></u>	00.004	0.10	0		0			
			EPA	95%	98.8%	0/0	0	0	0			Corrected count of 79 active major
1b2	DMR Entry Rate for Major Facilities	Goal	State	≥ 95%	96.5%	96.4%	79	92	13	Supplemental Review		traditional facilities and 11 MS4 Phase I majors. 2 majors permits inactive in ICIS- Cascades Canada Inc MD 006697and Berlin Properties North MD0002071. Compliance for Cascade turned off 9/1/2010 and 10/1/10 for Berlin. MS4 Phase I facilities are not required to submit DMRs.
			EPA	≥ 95%	98.4%	0/0	0	0	0			
1b3	Number of Major Facilities with a Manual Override of RNC/SNC to a Compliant Status	Data Verification	State		.,	15				Supplemental Review		Data error for MD/VA Milk Producers Coop which was flagged for non- submittal of DMRs for outfall that has been eliminated (3 overrides. Remaining overrides addressed data errors and enforcement actions requiring linkage for violations in ICIS
			EPA			0				2.22.1		
1c1	Permit Limits Rate for Non- Major Facilities	Informationa l only	State		66.1%	61.2%	505	825	320			

1			EPA	87.5%	0/0	0	0	0			٦
	DMR Entry										
	Rate for Non-	Informationa									
1c2	Major Facilities	1 only	State	72.6%	85.9%	5527	6432	905			
			EPA	87.2%	0/0	0	0	0			
											MDE does not enter or upload informal
											enforcement action information into the
	Facilities with	_									national database. Informal enforcement
1 1	Informal	Data	G		0				Supplemental		actions are tracked in the state database,
1e1	Actions	Verification	State EPA		0				Review		TEMPO.
	Total Number of		EPA		U						MDE does not enter or unload informal
	Informal										MDE does not enter or upload informal enforcement action information into the
	Actions at CWA										national database. Informal enforcement
	NPDES	Data							Supplemental		actions are tracked in the state database,
1e2	Facilities	Verification	State		0				Review		TEMPO.
102	T definites	Vermeution	EPA		0				Tto vie vi		TEM 0.
					Ü						
											MDE verified 37 facilities with formal
											enforcement actions. Two actions
										37	verified at American sugar 10/14/10 PS-
											11-1241 and 7/18/11PS-11-1379. Two
											actions were also verified at the Bowie
											WTTP ACO-10-1175 and CO-9-0786.
											Enforcement action codes for additional
											enforcement actions taken during the
	Facilities with	Data	_						Supplemental		review period were provided resulting in
1f1	Formal Actions	Verification	State		34				Review		a revised total number for FY2011.
			EPA		0						MDE 'C' 140 1 C 1
											MDE verified 40 total formal
											enforcement actions. Two actions
											verified at American Sugar 10/14/10 PS-11-1241 and 7/18/11PS-11-1379, only 1
											counted and listed. Two actions verified
	Total Number of										at Rising Sun 3/7/11 SP-11-1284 and
	Formal Actions										3/7/11 (SP-12-1408) only 1 counted and
	at CWA NPDES	Data							Supplemental	40	listed. Also two actions at Bowie
1f2	Facilities	Verification	State		34				Review		WWTP.
			EPA		0						

1g1	Number of Enforcement Actions with Penalties	Data Verification	State EPA		31 0						None
	Total Penalties	Data			\$347,47				Supplemental		
1g2	Assessed	Verification	State		2				Review		Verified
			EPA		\$0						
2a1	Number of formal enforcement actions, taken against major facilities, with enforcement violation type codes entered.	Data Verification	State		4				Supplemental Review		MDE verified 15 formal enforcement actions taken against major facilities. 4/15 or 26.6% of formal enforcement actions against majors are linked with enforcement violation type code.
			EPA		0						
5a1	Inspection Coverage - NPDES Majors	Goal metric	State	54.4%	87.7%	80	93	13	Review	79/90 or 87.7% 79/90 or 87.7%	79 /90 or 87.7% of major active permits in MD received inspections in FY2011. MDE does not enter compliance monitoring/enforcement information for 11 MS4 Phase I major facilities and 2 major permits are inactive. MDE did not perform any MS4 Phase I audits/inspections during FY 2011.
			EPA	3.8%	0%	0	93	93			
5b1	Inspection Coverage - NPDES Non- Majors	Goal metric	State	23.7%	15.3%	126	825	699	Supplemental Review	250/821 or 30%	MDE total count verified 821 individual permits, 505 industrial and municipal permits and 316 individual stormwater permits. MDE verified 250 inspections conducted at individual non-major facilities Corrected inspection coverage of NPDES non-majors is 250/821 or 30.45%.
	,		EPA	.8%	0%	0	825	825			
5b2	Inspection Coverage - NPDES Non-	Goal metric	State	19.2%	6.2%	139	0	2109	Supplemental Review		MDE verified 113/2448 or 4.65% non-major general permit inspections were conducted in FY 2011.

	Majors with General Permits									113/2448 or 4.6%	
			EPA	1%	0%	0	0	0			
7 a1	Number of Major Facilities with Single Event Violations	Data Verification	State		4				Supplemental Review	5	MDE verified 5 SEVs at major facilities: American Sugar – unauthorized discharge; Constellation Energy – unauthorized discharge, Mirant Dickerson – unauthorized discharge, Damscus – failure to sample, City of Frederick – failure to sample.
	NY 1 CNY		EPA		0						
7a2	Number of Non- Major Facilities with Single Event Violations	Informationa l only	State		11						
			EPA		0						
7b1	Compliance schedule violations	Data Verification	State		8						
			EPA		0						
7c1	Permit schedule violations	Data Verification	State		30				Supplemental Review		MDE verified that 19 facilities failed to comply with permit schedules in FY 2011. Enforcement actions were finalized for two of the 19 facilities in FY 2011. Follow up enforcement actions were issued in FY 2012 to address the majority of the permit schedule violations identified in FY 2011.
			EPA		0						
7d1	Major Facilities in Noncompliance	Review Indicator	State	71.2%	55.9%	52	93	41	Supplemental Review		79 active individual major facilities. 11 majors MS4 permits. 2 Majors permits inactive in ICIS- Cascades Canada Inc MD 006697and Berlin Properties North MD0002071. Compliance for Cascade turned off 9/1/2010 and 10/1/10 for Berlin. MDE verified 31 out of 90 or 34.44% of active majors in noncompliance during FY2011MDE did

										31/90 or 34.44%	not audit or inspect 11 MS4 Phase I facilities to determine compliance.
			EPA	63%	0/0	0	0	0			
7f1	Non-Major Facilities in Category 1 Noncompliance	Data Verification	State		260				Supplemental review	149	MDE verified 149 non-major facilities in Category I noncompliance.
			EPA		0						
7g1	Non-Major Facilities in Category 2 Noncompliance	Data Verification	State EPA		100				Supplemental Review		MDE verified the 100 facility count.
7h1	Non-Major Facilities in Noncompliance	Informationa l only	State		40.2%	332	825	493			
/111	Noncomphance	1 Only	EPA		0/0	0	023	493			
8a1	Major Facilities in SNC	Review indicator	State EPA		4 0	U		0			MDE verified SNC count for FY2011.
8a2	Percent of Major Facilities in SNC	Review indicator	State	22.3%	4.2%	4	96	92	Supplemental Review	4/90 or 4.4%	MDE verified 4/90 or 4.4% facilities in SNC for FY 2011. 79 Active individual major facilities. 11 majors MS4 permits. 2 Majors permits inactive in ICIS-Cascasde and Berlin. Compliance for Cascade turned off 9/1/2010 and 10/1/10 for Berlin.
			EPA	29.4%	0/0	0	0	0			
10a1	Major facilities with Timely Action as Appropriate	Goal metric	State		0%	0	2	2	Supplemental Review		MDE does not enter or upload this data into the national database.
			EPA			0	0				

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Finding	
NA	NA
NΔ	NA
14/4	IVA
NA	NA
ΝΔ	NA
10.0	107
NA	NA
	NA

\rightarrow											
Metric Type	Metric Name	Metric Type	Agency	National Goal	National Average	Maryland	Count	Universe	Not Counted	Initial Finding	Explanation
	metrics 1a3 or 1a4) that are Federally- Reportable										
	(Tier I)										
	Number of Active Minors and Facilities with Unknown Classification Subject to a Formal Enforcement Action (Not counted in metrics 1a3, 1a4, or 1a5)					36				NA	NA
1a6	that are Federally- Reportable (Tier II)	Data Verification	State								
1b1	Number of Active Federally- Reportable New Source Performance Standards (NSPS) (40 C.F.R. Part 61) Facilities	Data Verification	State			182				NA	NA
1b2	Number of Active Federally- Reportable NESHAP (40 C.F.R. Part 60) Facilities	Data Verification	State			4				NA	NA
1b3	Number of Active Federally- Reportable Maximum Achievable Control Technology	Data Verification	State			84				NA	NA

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Metric Type	Metric Name	Metric Type	Agency	National Goal	National Average	Maryland	Count	Universe	Not Counted	Initial Finding	Explanation
	(MACT) (40										
	C.F.R. Part 63)										
	Facilities										
	Number of										
	Active										
	Federally-					124				NA	NA
	Reportable					124				14/-4	INA
	Title V	Data									
1b4	Facilities	Verification	State								
	Number of Tier										
	I Facilities with					116				NA	NA
	an FCE	Data				110				147 (147 (
1c1	(Facility Count)	Verification	State								
	Number of										
	FCEs at Tier I	_				117				NA	NA
	Facilities	Data								10.0	1000
1c2	(Activity Count)	Verification	State								
	Number of Tier										
	II Facilities with	_				9				NA	NA
	FCE (Facility	Data	_			Ü				10.0	1000
1c3	Count)	Verification	State								
	Number of Tier					_					
	II Facilities	Data				9				NA	NA
1c4	(Activity Count)	Verification	State								
	Number of Tier										
	I Facilities with										
	Noncompliance	5.				31				NA	NA
4.14	Identified	Data	01-1-								
1d1	(Facility count)	Verification	State								
	Number of Tier										
	II Facilities with					0				NIA	NIA
	Noncompliance Identified	Data				0				NA	NA
140	(Facility count)	Verification	Ctoto								
1d2	Number of	verification	State								
	Informal										
	Enforcement										
	Actions Issued					23				NA	NA
	to Tier I					23				INA	INA
	Facilities	Data									
1e1	(Activity Count)	Verification	State								
101	Number of Tier	VOITIGATION	Otato								
	I Facilities										
	Subject to an					17				NA	NA
	Informal	Data				''				14/1	14/1
1e2	Enforcement	Verification	State								
Te2	Enforcement	verification	State								

→											
Metric Type	Metric Name	Metric Type	Agency	National Goal	National Average	Maryland	Count	Universe	Not Counted	Initial Finding	Explanation
•	Action (Facility Count)										
1f1	Number of HPVs Identified (Activity Count)	Data Verification	State			7				NA	NA
1f2	Number of Facilities with an HPV Identified (Facility Count)	Data Verification	State			7				NA	NA
1g1	Number of Formal Enforcement Actions Issued to Tier I Facilities (Activity Count)	Data Verification	State			14				NA	NA
1g2	Number of Tier I Facilities Subject to a Formal Enforcement Action (Facility Count)	Data Verification	State			11				NA	NA
1g3	Number of Formal Enforcement Actions issued to Tier II Facilities (Activity Count)	Data Verification	State			3				NA	NA
1g4	Number of Tier II Facilities Subject to a Formal Enforcement Action (Facility Count)	Data Verification	State			3				NA	NA
1h1	Total Amount of Assessed Penalties	Data Verification	State			\$464,000				NA	NA
1h2	Number of Formal Enforcement Actions with	Data Verification	State			9				NA	NA

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Metric Type	Metric Name	Metric Type	Agency	National Goal	National Average	Maryland	Count	Universe	Not Counted	Initial Finding	Explanation
	Assessed										
	Penalty										
	Number of										
	Stack Tests					61				NA	NA
	with Passing	Data				01				INA	INA
1i1	Results	Verification	State								
	Number of										
	Stack Tests	5 .				1				NA	NA
410	with Failing	Data	0								
1i2	Results	Verification	State								
	Number of										
	Stack Tests	Data								NA	NA
4'0	with Pending	Data	01-1-			0					
1i3	Results	Verification	State			0					
	Number of										
	Stack Tests									NIA	NA
	with No Results	Doto								NA	NA
1i4	Reported	Data Verification	State			0					
114	Number of	verification	State			U					
	Stack Tests										
	Observed and	Data				14				NA	NA
1i5	Reviewed	Verification	State								
110	Number of	vermeation	Otato								
	Stack Tests	Data				48				NA	NA
1i6	Reviewed Only	Verification	State			40				1471	14/1
110	Number of	vormodion	Otato								
	Annual Title V										
	Annual					122				NA	NA
	Certifications	Data									
1j	Reviewed	Verification	State								
2. Data											
accuracy.											
Degree to											
which the											
minimum data											
requirements											
are accurate.											
	Major Sources										No major sources
	Missing CMS									Meets	were missing CMS
	Source	Review	<u> </u>							Expectations	Source Category
2a	Category Code	Indicator	State			0					Code in FY2011.
3. Timeliness											
of data entry.											
Degree to											
which the											

\rightarrow											
Metric Type	Metric Name	Metric Type	Agency	National Goal	National Average	Maryland	Count	Universe	Not Counted	Initial Finding	Explanation
minimum data requirements are complete.											
3a1	Timely Entry of HPV Determinations	Review Indicator	State			6	6			Meets Expectations	NA
3a2	Untimely Entry of HPV Determinations	Goal	State	0		1	1			Area for State Attention	One facility (Lehigh Cement - Union Bridge) took 92 days to enter.
3b1	Timely Reporting of Compliance Monitoring Minimum Data Requirements	Goal	State	100%	78.60%	98%	243	248	5	Meets Expectations	NA
3b2	Timely Reporting of Stack Test Minimum Data Requirements	Goal	State	100%	75.50%	90.30%	56	62	6	Meets Expectations	Days to report untimely stack tests: 127, 128, 133, 141, 154, and 195
3b3	Timely Reporting of Enforcement Minimum Data Requirements	Goal	State	100%	76.10%	98%	48	49	1	Meets Expectations	NA
5. Inspection coverage. Degree to which state completed the universe of planned compliance evaluations.											
5a	FCE Coverage Major	Goal	State	100%	90%	100%	57	57	0	Meets Expectations	NA
5b	FCE Coverage SM-80	Goal	State	100%	90.60%	100%	52	52	0	Meets Expectations	NA
5c	FCE Coverage Synthetic Minor (non SM-80)	Goal	State				0	0	0	NA	NA
5d	FCE Coverage Minor	Goal	State				0	0	0	NA	NA

\rightarrow											
Metric Type	Metric Name	Metric Type	Agency	National Goal	National Average	Maryland	Count	Universe	Not Counted	Initial Finding	Explanation
	Review of Title V Annual Certifications									Meets Expectations	2 of the 7 not completed were at SM sources.
5e 7. Identification	Completed	Goal	State	100%	72.50%	94.40%	117	124	7		OW 3001003.
of alleged violations. Degree to which compliance determinations are accurately made and promptly reported in the national database based upon compliance monitoring											
report observations and other compliance monitoring information.											
7b1	Alleged Violations Reported Per Informal Enforcement Actions (Tier I Only)	Goal	State	100%	62.20%	88.20%	15	17	2	Area for State Attention	The 2 facilities that were "not counted" were SM sources that the compliance status was not changed.
	Alleged Violations Reported Per Failed Stack	Review		.0070						Meets Expectations	NA
7b2	Tests	Indicator	State		54%	100%	1	1	0		All 6 HPVs
7b3	Alleged Violations Reported Per HPV Identified	Goal	State	100%	69.60%	100%	6	6	0	Meets Expectations	identified during FY2011 were reported as either "in violation" or "meeting schedule".
8. Identification of SNC and											

→		Metric		National	National				Not	Initial	
Metric Type	Metric Name	Туре	Agency	Goal	Average	Maryland	Count	Universe	Counted	Finding	Explanation
HPV. Degree to which the state accurately identifies significant noncompliance & high priority violations and enters information into the national											
system in a timely manner.	HPV Discovery										
8a	Rate Per Major Facility Universe	Review Indicator	State		3.90%	5%	6	121	115	Meets Expectations	Above national average.
8b	HPV Reporting at Majors with Failed Stack Tests	Review Indicator	State		20.50%	0/0	0	0	0	Meets Expectations	
10. Timely and Appropriate Action. Degree to which a state takes timely and appropriate enforcement actions in accordance with policy relating to specific media											
10a	HPV Cases with meet the timeliness goal of the HPV Policy	Review Indicator	State		63.70%	85.70%	6	7	1	Meets Expectations	The 1 facility that did not meet the timeliness goal (BWI Airport) also came up in Round 2. Day Zero was 9/28/07 and it was addressed 12/29/10. It is a state-owned facility.

Clean Water Act

											Final	
				Natl	Natl	Maryla		Univers	Not	Initial	Finding	
Metric	Metric Name	Metric Type	Agency	Goal	Avg	nd	Count	e	Cntd	Findings	State	Explanation
												MDE verified 79 active major traditional
												facilities and 11 MS4 Phase I majors. 2
												majors permits inactive in ICIS-
	Number of Active NPDES											Cascades Canada Inc MD 006697and
	Majors with											Berlin Properties North MD0002071 . Compliance for Cascade turned off
	Individual	Data								Supplemental	90	9/1/2010 and 10/1/10 for Berlin Verified
	Permits	Verification	State			93				Review.		data counted 92.
			EPA			0						
	Number of											All General Permits are non-major.
	Active NPDES											Permits that would be classified as
	Majors with	Data	_			_				Supplemental		Majors would be issued as individual
1a2	General Permits	Verification	State			0				Review		permits.
	Number of		EPA			0						
	Active NPDES											
	Non-Majors											Total count verified of 821 individual
	with Individual	Data								Supplemental		permits: 505 industrial/municipal permits
1a3	Permits	Verification	State			825				Review	821	and 316 individual stormwater permits.
			EPA			0						
	Number of											
	Active NPDES											
	Non-Majors with General	Data								Cunnlamantal		MDE verified 2448 non-major general
	Permits	Verification	State			2247				Supplemental Review	2448	permits.
141	1 CHINES	Vermeution	EPA			0				Teview	2110	permits.
	Permit Limits											
	Rate for Major			>								
1b1	Facilities	Goal	State	95%	98.6%	95.7%	89	93	4			
			ED 4	>	00.00	0.10						
	DMR Entry		EPA	95%	98.8%	0/0	0	0	0			Corrected count of 79 active major
	Rate for Major			≥						Supplemental		traditional facilities and 11 MS4 Phase I
	Facilities	Goal	State		96.5%	96.4%	79	92	13	Review		majors. 2 majors permits inactive in

											ICIS- Cascades Canada Inc MD 006697and Berlin Properties North MD0002071 . Compliance for Cascade turned off 9/1/2010 and 10/1/10 for
											Berlin. MS4 Phase I facilities are not required to submit DMRs.
			EPA	≥ 95%	98.4%	0/0	0	0	0		
1b3	Number of Major Facilities with a Manual Override of RNC/SNC to a Compliant Status	Data Verification	State			15				Supplemental Review	Data error for MD/VA Milk Producers Coop which was flagged for non- submittal of DMRs for outfall that has been eliminated (3 overrides. Remaining overrides addressed data errors and enforcement actions requiring linkage for violations in ICIS
			EPA			0					
1.1	Permit Limits Rate for Non-	Informationa	State		CC 10/	c1 20/	505	925	220		
1c1	Major Facilities	l only	EPA		66.1% 87.5%	61.2%	505	825	320		·
	DMR Entry		LIT		07.570	0/0	0	0			
1c2	Rate for Non- Major Facilities	Informationa l only	State		72.6%	85.9%	5527	6432	905		
	·	•	EPA		87.2%	0/0	0	0	0		
1e1	Facilities with Informal Actions	Data Verification	State			0				Supplemental Review	MDE does not enter or upload informal enforcement action information into the national database. Informal enforcement actions are tracked in the state database, TEMPO.
	Tatal Namban of		EPA			0					MDE data not suton an unlocal informati
1e2	Total Number of Informal Actions at CWA NPDES Facilities	Data Verification	State			0				Supplemental Review	MDE does not enter or upload informal enforcement action information into the national database. Informal enforcement actions are tracked in the state database, TEMPO.
			EPA			0					
1f1	Facilities with Formal Actions	Data Verification	State			34				Supplemental Review	MDE verified 37 facilities with formal enforcement actions. Two actions verified at American sugar 10/14/10 PS-

										37	11-1241 and 7/18/11PS-11-1379. Two actions were also verified at the Bowie WTTP ACO-10-1175 and CO-9-0786. Enforcement action codes for additional enforcement actions taken during the review period were provided resulting in a revised total number for FY2011.
			EPA		0						
1f2	Total Number of Formal Actions at CWA NPDES Facilities	Data Verification	State		34				Supplemental Review	40	MDE verified 40 total formal enforcement actions. Two actions verified at American Sugar 10/14/10 PS-11-1241 and 7/18/11PS-11-1379, only 1 counted and listed. Two actions verified at Rising Sun 3/7/11 SP-11-1284 and 3/7/11 (SP-12-1408) only 1 counted and listed. Also two actions at Bowie WWTP.
112	Tacinues	Vermeation	EPA		0				Review		WWIF.
1g1	Number of Enforcement Actions with Penalties	Data Verification	State EPA		31						None
	Total Penalties	Data			\$347,47				Supplemental		
1g2	Assessed	Verification	State		2				Review		Verified
			EPA		\$0						
2a1	Number of formal enforcement actions, taken against major facilities, with enforcement violation type codes entered.	Data Verification	State EPA		4 0				Supplemental Review		MDE verified 15 formal enforcement actions taken against major facilities. 4/15 or 26.6% of formal enforcement actions against majors are linked with enforcement violation type code.
	Inspection		LIF A		U					-	79 /90 or 87.7% of major active permits
5a1	Coverage -	Goal metric	State	54.4%	87.7%	80	93	13	Supplemental Review		in MD received inspections in FY2011. MDE does not enter compliance

Í	1	1	İ	I	l I	ĺ	i i	i i		I	70/00	1
											79/90 or 87.7%	monitoring/enforcement information for
											87.7%	11 MS4 Phase I major facilities and 2
												major permits are inactive. MDE did not
											70/00	perform any MS4 Phase I
											79/90 or	audits/inspections during FY 2011.
							_				87.7%	
			EPA		3.8%	0%	0	93	93			
												MDE total count verified 821 individual
												permits, 505 industrial and municipal
												permits and 316 individual stormwater
												permits. MDE verified 250 inspections
	Inspection											conducted at individual non-major
	Coverage -										250/821	facilities Corrected inspection coverage
	NPDES Non-		_							Supplemental	or 30%	of NPDES non-majors is 250/821 or
5b1	Majors	Goal metric	State		23.7%	15.3%	126			Review		30.45%.
			EPA		.8%	0%	0	825	825			
	Inspection											
	Coverage -											
	NPDES Non-											MDE verified 113/2448 or 4.65% non-
	Majors with									Supplemental		major general permit inspections were
5b2	General Permits	Goal metric	State		19.2%	6.2%	139	0	2109	Review	or 4.6%	conducted in FY 2011.
					4.07	0.04						
			EPA		1%	0%	0	0	0			16.15.65
												MDE verified 5 SEVs at major facilities:
												American Sugar – unauthorized
												discharge; Constellation Energy –
	Number of											unauthorized discharge, Mirant
	Major Facilities	Б.								G 1 . 1	_	Dickerson – unauthorized discharge,
7 1		Data	a			4				Supplemental	5	Damscus – failure to sample, City of
7a1	Event Violations	Verification	State			4				Review		Frederick – failure to sample.
	NY 1 CNY		EPA			0						
	Number of Non-											
	Major Facilities	T C :										
7.0	with Single	Informationa	a									
7a2	Event Violations	l only	State			11						
	G 1:		EPA			0						
	Compliance	Б.										
71.1	schedule	Data	g									
7b1	violations	Verification	State			8						

Permit schedule violations Total Paramit schedule		1		EPA	ĺ		0						1 1
Major Facilities in Category 1 Data Verification State PA Data Verification Pacilities in Category 2 Data Verification State PA Data Verification Pacilities in Category 2 Data Verification Pacilities in Category 2 Data Verification Pacilities in Category 3 PA Data Verification Pacilities in Category 4 Pacilities in Category 5 Data Verification Pacilities in Category 6 PA Data Verification Pacilities in Category 7 Data Verification Pacilities in Category 8 PA Data Verification Pacilities 1 Paci	7c1			State			30						comply with permit schedules in FY 2011. Enforcement actions were finalized for two of the 19 facilities in FY 2011. Follow up enforcement actions were issued in FY 2012 to address the majority of the permit schedule violations
majors MS4 permits. 2 Majors permits inactive in ICIS- Cascades Canada Inc MD 006697and Berlin. MD verified 31 out of 90 or 34.44% of active majors in noncompliance during FY2011MDE did not audit or inspect 11 MS4 Phase I facilities to determine compliance. Non-Major Facilities in Category I Data Noncompliance Non-Major Facilities in Category 2 Data Non-Major Facilities in Informationa Non-Major Facilities in In				EPA			U						70 active individual major facilities 11
Non-Major Facilities in Category 1 Noncompliance Non-Major Facilities in Category 2 Non-Major Facilities in Category 2 Noncompliance Verification State Data Noncompliance Non-Major Facilities in Category 2 Noncompliance Verification State Data Noncompliance Nonc	7d1	in				71.2%	55.9%						majors MS4 permits. 2 Majors permits inactive in ICIS- Cascades Canada Inc MD 006697and Berlin Properties North MD0002071. Compliance for Cascade turned off 9/1/2010 and 10/1/10 for Berlin. MDE verified 31 out of 90 or 34.44% of active majors in noncompliance during FY2011MDE did not audit or inspect 11 MS4 Phase I
Non-Major Facilities in Category 1 Noncompliance Verification State 260 Supplemental review 149 Category I noncompliance. Non-Major Facilities in Category 2 Data Noncompliance Verification State 100 State Supplemental Review MDE verified 149 non-major facilities in Category I noncompliance. Non-Major Facilities in Category 2 Data Noncompliance Verification State 100 Review MDE verified the 100 facility count. Non-Major Facilities in Informationa I only State 40.2% 332 825 493		1		EPA									
Facilities in Category 2 Data 7g1 Noncompliance Verification State 100 Supplemental Review MDE verified the 100 facility count. Non-Major Facilities in Informationa 7h1 Noncompliance I only State 40.2% 332 825 493	7f1	Facilities in Category 1										149	
Non-Major Facilities in Informationa Facilities in Informationa State 40.2% 332 825 493 State 332 825 493 State 40.2%	7g1	Facilities in Category 2		State			100						MDE verified the 100 facility count.
Non-Major Facilities in Informationa 7h1 Noncompliance I only State 40.2% 332 825 493	7.81	one on primite	· ciliounon										
	7h1	Facilities in						332	825	493			
	, 111	1.oncompilation	1 0111 5										

8a1	Major Facilities in SNC	Review indicator	State		4						MDE verified SNC count for FY2011.
			EPA		0						
8a2	Percent of Major Facilities in SNC	Review	State	22.3%	4.2%	4	96	92	Supplemental Review	4/90 or 4.4%	MDE verified 4/90 or 4.4% facilities in SNC for FY 2011. 79 Active individual major facilities. 11 majors MS4 permits. 2 Majors permits inactive in ICIS-Cascasde and Berlin. Compliance for Cascade turned off 9/1/2010 and 10/1/10 for Berlin.
			EPA	29.4%	0/0	0	0	0			
10a1	Major facilities with Timely Action as Appropriate	Goal metric	State		0%	0	2	2	Supplemental Review		MDE does not enter or upload this data into the national database.
			EPA			0	0				

RCRA DMA

Metric				National	National				Not	
ID	Metric Name	Metric Type	Agency	Goal	Average	Maryland	Count	Universe	Counted	Initial Finding
	Number of operating									
1a1	TSDFs	Data Verification	State			11				
			EPA			11				
1a2	Number of active LQGs	Data Verification	State			461				
			EPA			461				
1a3	Number of active SQGs	Data Verification	State			4329				
			EPA			4329				
1a4	All other active sites	Data Verification	State			4036				
			EPA			4036				
1a5	Number of BR LQGs	Data Verification	State			107				
			EPA			107				
1b1	Number of sites inspected	Data Verification	State			94				
			EPA			15				
1b2	Number of inspections	Data Verification	State			103				
	·		EPA			15				
	Number of sites with new violations during review									
1c1	year	Data Verification	State			13				
			EPA			11				
	Number of sites in violation at any time during the review year regardless of									
1c2	determination date	Data Verification	State			24				
			EPA			26				
	Number of sites with informal enforcement		_			_				
1d1	actions	Data Verification	State			9				
			EPA			12				
1d2	Number of informal enforcement actions	Data Verification	State			9				

			EPA	1		12				
	Number of sites with new									
1e1	SNC during year	Data Verification	State			0				
			EPA			2				
	Number of sites in SNC regardless of									
1e2	determination date	Data Verification	State			9				
			EPA			9				
	Number of sites with formal enforcement									
1f1	actions	Data Verification	State			10				
			EPA			3				
1f2	Number of formal enforcement actions	Data Verification	State			10				
			EPA			3				
1g	Total dollar amount of final penalties	Data Verification	State			\$54,850				
			EPA			\$570,000				
1h	Number of final formal actions with penalty in last 1 FY	Data Verification	State			2				
	1	Data Volinication	EPA			1				
2a	Long-standing secondary violators	Review Indicator	State			4				
			EPA			5				
5a	Two-year inspection coverage for operating TSDFs	Goal	State	100%	89.4%	100%	11	11	0	
эа	ISDFS	Goal	State	100%	69.4%	100%	11	11	0	
			Combined	100%	94.2%	100%	11	11	0	Meets expectations
5b	Annual inspection coverage for LQGs	Goal	State	20%	22.6%	19.6%	21	107	86	
			Combined	20%	24.7%	27.1%	29	107	78	Meets expectations
5c	Five-year inspection coverage for LQGs	Goal	State	100%	62.9%	74.8%	80	107	27	Area for State attention

			Combined	100%	67.6%	83.2%	89	107	18	
	Five-year inspection	Informational								
5d	coverage for active SQGs	Only	State		11%	2.2%	97	4329	4232	
			Combined		11.6%	2.4%	106	4329	4223	
	Five-year inspection									
	coverage at other sites	Informational								
5e1	(CESQGs)	Only	State			62				
			Combined			69				
	Five-year inspection									
5 -0	coverage at other sites	Informational	04-4-			40				
5e2	(Transporters)	Only	State			13				
	Fire we are in an aution		Combined			13				
	Five-year inspection coverage at other sites	Informational								
5e3	(Non-notifiers)	Only	State			1				
363	(NOTI-HOURIETS)	Offiny	Combined			1				
	Five-year inspection		Combined			1				
	coverage at other sites									
	(not covered by metrics	Informational								
5e4	5a-5e3)	Only	State			314				
			Combined			314				
	Violations found during									
7b	inspections	Review Indicator	State		32.5%	14%	13	93	80	
			EPA		33.2%	73.3%	11	15	4	
										Area for State
8a	SNC identification rate	Review Indicator	State		2.1%	0%	0	96	96	improvement
			EPA		5.2%	12.5%	2	16	14	·
										Unable to
	Timeliness of SNC									assess - no
8b	determinations	Goal	State	100%	81.7%	0/0	0	0	0	activity
			EPA	100%	72.2%	100%	2	2	0	
										Unable to
	Timely enforcement taken									assess - no
10a	to address SNC	Review Indicator	State	80%	81.8%	0/0	0	0	0	activity
			EPA	80%	33.3%	100%	1	1	0	

Appendix B: File Metric Analysis

This section presents file metric values with EPA's initial observations on program performance. Initial findings are developed by EPA at the conclusion of the file review.

Initial findings indicate whether there is a potential issue and the nature of the issue. These findings are developed after comparing the data metrics to the file metrics and discussing these findings with MDE.

Final findings are presented above in the CWA Findings section and are provided by element.

Because of limited sample size, statistical comparisons among programs or across states cannot be made.

State: Maryland

CWA Metric #	Description	Numerator	Denominator	Metric Value	Goal	Initial Findings	Final Findings	Details
2b	Percentage of files reviewed where data in the file are accurately reflected in the national data systems	12	48	25%	95%	Area for State Improvement	Area for State Improvement	Inspection and enforcement files reviewed frequently did not match data in ICIS and/or MDE did not enter minimum required data (WENDB) into ICIS.
3a	Timeliness of mandatory data entered in the national data system	17	48	35.4%	100%	Area for State Improvement	Area for State Improvement	MDE frequently did not enter the minimum required data (WENDB) on a timely basis into ICIS. The file review determined that inspection reports and enforcement actions for majors and non-majors were not entered into the national database in FY 2011. MDE did not enter CAFO,

								Co da av	S4 and Stormwater onstruction data into the national tabase although the data is ailable through the state data stems.
4b	enforce commit than CI commit including production PPA agreem MOUs	tments other MS	3	6	50%	100% In	Area for State mprovement	its co (C W eld FY da fac (M SF are un all 20 fo	DE has not completed all of commitments for its FY 2011 mpliance monitoring strategy MS). MDE did not enter all ENDB (or RIDE) data ements into ICIS during 72011 for entry of non-major ta elements, MS4 Phase I cilities, and CAFOs IOA/106). Several of the MDE RF Round 2 recommendations e outstanding and remain addressed. MDE did not meet of its commitments under FY 11 enforcement work plans rMS4 facilities 16/enforcement work plans).
	9a	Percentage of enforcement responses that return or will return source in SNC to compliance	14	21	66.7%	100%	Area for State Improvement	Area for State Improvement	MDE enforcement responses returned facilities to compliance in 14 of 21 enforcement files reviewed by EPA. MDE enforcement responses do not consistently return violating facilities to compliance.

5a1	Percentage of planned inspections completed: Majors	79	90	87.7%	100.0%	Area for State Attention	Area for State Attention	The number of NPDES major facilities inspected in FY 2011 was 79 out of 90 or 87.7% major facilities. MDE did not perform any audits/inspections at MS4 Phase I facilities.
5b1	Percentage of planned inspections completed: Individual nonmajors	250	821	30.45%	100%	Meets Requirement	Meets Requireme nt	There are 821 NPDES Non-majors with individual permits and 250 inspections were conducted in FY 2011, which yields 30.7%. The national average for 5b1 is 23.7%
5b2	Percentage of planned inspections completed: General nonmajors	113	2448	4.6%	100%	Area for State Improvement	Area for State Improveme nt	There are 2488 NPDES Non-majors with general permits, and 113 inspections were conducted in FY2011 (4.6%). The 2007 CMS federal guidance requires that states inspect approx. 10% annually of the General Non-Major universe. The national average is 19.2%.
6 a	Percentage of inspection reports reviewed that are complete and provide sufficient documentation to determine compliance	35	39	89.7%	100%	Meets Requirement	Meets Requireme nt	EPA's file review identified 35 of 39 or 89.7% of inspection files reviewed that provided sufficient documentation to determine compliance. Inspection reports lacking sufficient documentation required supplemental narrative or additional evidence to determine compliance.

6b	Inspection reports completed within the prescribed time frame: Percentage of inspection reports reviewed that are timely	30	39	76.9%	100%	Area for State Improvement	Area for State Improveme nt	Reviewers had difficulty determining the timeliness of the MDE inspection reports reviewed because the reports routinely did not include inspection times, dates and signatures.
7 e	Inspection reports reviewed that led to an accurate compliance determination	34	39	87.2.%	100%	Area for State Attention	Area for State Attention.	Five inspection reports reviewed did not include sufficient narrative information to make an accurate compliance determination.
8b	Percentage of single event violation(s) that are accurately identified as SNC or Non-SNC	1	9	11.1%	100%	Area for State Improvement	Area for State Improve- ment	MDE does not routinely identify SEV/SNC during inspections. Entry of SEVs for non-major facilities into the national database is not mandatory if a state provides EPA the data from the state's database. Currently, MDE does not provide EPA SEV non-major data or enter that data into ICIS.
8c	Percentage of SEVs Identified	1	2	50.0%	100%	Area for State Improvement	Area for State	MDE identified and reported 1 SEV out of 2 (two) for major facilities in SNC in FY 2011.

10b	Enforcement responses reviewed that address violations in a timely manner	18	21	85.7%	100%	Area for State Attention	Improveme nt Area for State Attention	MDE does not routinely identify and report SEV as SNC at major facilities. EPA reviewed 21 enforcement files addressing SNC and non-SNC violations. MDE addressed violating facilities in a timely and appropriate manner in 18 of 21 or 85.7% of the files reviewed by EPA. MDE did not take appropriate action in 3 of the files reviewed due to the violations requiring formal enforcement or formal enforcement was taken with no penalty.
11a	Percentage of penalty calculations reviewed that consider and include, where appropriate, gravity and economic benefit	0	17	0%	100%	Area for State Improvement	Area for State Improvement	MDE does not consider and calculate economic benefit in its penalty calculations.
12a	Percentage of penalties reviewed that document the difference between the initial and final assessed penalty,	8	17	47. 1%	100%	Area for State Improvement	Area for State Improvement	MDE did not routinely include penalty calculation worksheets in the enforcement case files. MDE does have a penalty calculation sheet that MDE staff should use when calculating a penalty.

and the rationale for that difference

12b	Percentage of penalty files reviewed that document collection of penalty	14	17	82.4%	100%	Area for State Attention	Area for State Attention	14 penalties files reviewed by EPA contained sufficient documentation for collection of the penalties. The EPA review identified 3 enforcement files without documentation of the penalty collection.
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Clean Air File Metrics Analysis State: Maryland (MDE)

State: Maryla	and (MDE)						1001 110 (10 (10 (10 00) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CAA Metric #	CAA File Review Metric Description	Numerator	Denominator	Percentage	Goal	Initial Findings	Details
2b	Accurate MDR data in AFS: Percentage of files reviewed where MDR data are accurately reflected in AFS	23	27	85.2%	100%	State Attention	Data from 4 files was not consistent with what was reported to AFS. One file listed a PCE, however an FCE was incorrectly reported to AFS. The other 3 files had incorrect inspection dates reported to AFS. This is occurring when FCEs are performed at gas stations by an MDE contractor. The contractor does not submit the inspection reports timely to MDE. Upon receipt, MDE reviews the report and enters the date of receipt in AFS instead of the actual inspection date. This results in inconsistencies between the data in the enforcement file and what is reported to AFS.
4a1	Planned evaluations completed: Title V Major FCEs	59	59	100.0%	100%	Meets Expectations	
4a2	Planned evaluations completed: SM-80 FCEs	56	34	164.7%	100%	Meets Expectations	

Clean Air File Metrics Analysis

State: Maryland (MDE)

State: Maryia	iiu (MDE)						
CAA Metric #	CAA File Review Metric Description	Numerator	Denominator	Percentage	Goal	Initial Findings	Details
4b	Planned commitments completed: CAA compliance and enforcement commitments other than CMS commitments	9	9	100.0%	100%	Meets Expectations	MDE exceeded its FY2011 SM-80 commitment.
ба	Documentation of FCE elements: Percentage of FCEs in the files reviewed that meet the definition of a FCE per the CMS policy	9	15	60.0%	100%	State Improvement	6 of 15 files were only missing enforcement history.
6b	Compliance Monitoring Reports (CMRs) or facility files reviewed that provide sufficient documentation to determine compliance of the facility: Percentage of CMRs or facility files reviewed that provide sufficient documentation to determine facility compliance	15	15	100.0%	100%	Meets Expectations	
7a	Accuracy of compliance determinations: Percentage of CMRs or facility files reviewed that led to accurate compliance determinations	15	15	100.0%	100%	Meets Expectations	

Clean Air File Metrics Analysis State: Marvland (MDE)

State: Maryla	` ′						
CAA Metric #	CAA File Review Metric Description	Numerator	Denominator	Percentage	Goal	Initial Findings	Details
8c	Accuracy of HPV determinations: Percentage of violations in files reviewed that were accurately determined to be HPVs	17	18	94.4%	100%	Meets Expectations	
9a	Formal enforcement responses that include required corrective action that will return the facility to compliance in a specified time frame: Percentage of formal enforcement responses reviewed that include required corrective actions that will return the facility to compliance in a specified time frame	11	11	100.0%	100%	Meets Expectations	
10a	Timely action taken to address HPVs: Percentage of HPV addressing actions that meet the timeliness standard in the HPV Policy	5	5	100.0%	100%	Meets Expectations	
10b	Appropriate Enforcement Responses for HPVs: Percentage of enforcement responses for HPVs that	5	5	100.0%	100%	Meets Expectations	

Clean Air File Metrics Analysis
State: Maryland (MDF)

nd (MDE)						
CAA File Review Metric Description	Numerator	Denominator	Percentage	Goal	Initial Findings	Details
appropriately address the violations						
Penalty calculations reviewed that consider and include gravity and economic benefit: Percentage of penalty calculations reviewed that consider and include, where appropriate, gravity and economic benefit	7	9	77.8%	100%	State Improvement	2 of the 9 files reviewed did not document initial penalty calculations.
Documentation on difference between initial and final penalty and rationale: Percentage of penalties reviewed that document the difference between the initial and final assessed penalty, and the rationale for that difference	2	7	28.6%	100%	State Improvement	5 of the 7 files reviewed did not document the difference between the initial and final assessed penalty
Penalties collected: Percentage of penalty files reviewed that document collection of penalty	8	8	100.0%	100%	Meets Expectations	
	CAA File Review Metric Description appropriately address the violations Penalty calculations reviewed that consider and include gravity and economic benefit: Percentage of penalty calculations reviewed that consider and include, where appropriate, gravity and economic benefit Documentation on difference between initial and final penalty and rationale: Percentage of penalties reviewed that document the difference between the initial and final assessed penalty, and the rationale for that difference Penalties collected: Percentage of penalty files reviewed that document	Penalty calculations reviewed that consider and include gravity and economic benefit: Percentage of penalty calculations reviewed that consider and include, where appropriate, gravity and economic benefit Documentation on difference between initial and final penalty and rationale: Percentage of penalty and rationale: Percentage of penalties reviewed that document the difference between the initial and final assessed penalty, and the rationale for that difference Penalties collected: Percentage of penalty files reviewed that document the service went the service were the rationale for that difference	CAA File Review Metric Description appropriately address the violations Penalty calculations reviewed that consider and include gravity and economic benefit: Percentage of penalty calculations reviewed that consider and include, where appropriate, gravity and economic benefit Documentation on difference between initial and final penalty and rationale: Percentage of penalties reviewed that document the difference between the initial and final assessed penalty, and the rationale for that difference Penalties collected: Percentage of penalty files reviewed that document 8 8	CAA File Review Metric Description appropriately address the violations Penalty calculations reviewed that consider and include gravity and economic benefit: Percentage of penalty calculations reviewed that consider and include, where appropriate, gravity and economic benefit Documentation on difference between initial and final penalty and rationale: Percentage of penalties reviewed that document the difference between the initial and final assessed penalty, and the rationale for that difference Penalties collected: Percentage of penalty files reviewed that document the document the difference Numerator Denominator Percentage 7 9 77.8% 28.6%	CAA File Review Metric Description appropriately address the violations Penalty calculations reviewed that consider and include gravity and economic benefit: Percentage of penalty calculations reviewed that consider and include, where appropriate, gravity and economic benefit Documentation on difference between initial and final penalty and rationale: Percentage of penalty enderence between the initial and final assessed penalty, and the rationale for that difference Penalties collected: Percentage of penalty files reviewed that document the document the general ties reviewed that document the difference between the initial and final assessed penalty and the rationale for that difference Penalties collected: Percentage of penalty files reviewed that document 8 8 8 100.0% 100%	CAA File Review Metric Description appropriately address the violations Penalty calculations reviewed that consider and include gravity and economic benefit: Percentage of penalty calculations reviewed that consider and include, where appropriate, gravity and economic benefit Documentation on difference between initial and final penalty and rationale: Percentage of penalty calculations reviewed that consider and include, where appropriate, gravity and economic benefit Documentation on difference between initial and final penalty and rationale: Percentage of penalties reviewed that document the difference between the initial and final assessed penalty, and the rationale for that difference Penalties collected: Percentage of penalty files reviewed that document 8 8 8 100.0% 100% Meets Expectations Meets Expectations

Clean Air File Metrics Analysis State: Maryland (MDE)

CAA Metric CAA File Review Metric # Numerator Denominator Percentage Goal Findings Details

Finding Category Descriptions

Good Practice: Activities, processes, or policies that the SRF metrics show are being implemented at the level of Meets Expectations, are innovative and noteworthy and can serve as models for other states.

Meets Expectations: Describes a situation where either: a) no performance deficiencies are identified, or b) single or infrequent deficiencies are identified that do not constitute a pattern or problem. Generally, states are meeting expectations when falling between 91 to 100 percent of a national goal.

Year Reviewed: FY 2011

Area for State Attention: The state has single or infrequent deficiencies that constitute a minor pattern or problem that does not pose a risk to human health or the environment. Generally, performance requires state attention when the state falls between 85 to 90 percent of a national goal.

Area for State Improvement: Activities, processes, or policies that SRF data and/or file metrics show as major problems requiring EPA oversight. These will generally be significant recurrent issues. However, there may be instances where single or infrequent cases reflect a major problem, particularly in instances where the total number of facilities under consideration is small. Generally, performance requires state improvement when the state falls below 85 percent of a national goal.

RCRA File Metric Analysis

RCRA Metric #	Name and Description	Numerator	Denominator	Metric %	Goal	Initial Findings	Details
2b	Accurate entry of mandatory data: Percentage of files reviewed where mandatory data are accurately reflected in the national data system	19	30	63.3%	100%		
3a	Timely entry of mandatory data: Percentage of files reviewed where mandatory data are entered in the national data system in a timely manner	30	30	100.0%	100%		
4a	Planned non-inspection commitments completed: Percentage of non-inspection commitments completed in the review year	5	6	83.3%	100%		
4b1	Planned inspections completed: LQGs	0	0	#DIV/0!	100%		
4b2	Planned inspections completed: SQGs	0	0	#DIV/0!	100%		
4b3	Planned inspections completed: CESQGs	0	0	#DIV/0!	100%		
4b4	Planned inspections completed: Transporters	0	0	#DIV/0!	100%		
6a	Inspection reports complete and sufficient to determine compliance: Percentage of inspection reports reviewed that are complete and provide sufficient documentation to determine compliance	19	27	70.4%	N/A		
6b	Timeliness of inspection report completion: Percentage of inspection reports reviewed that are completed in a timely manner	0	0	#DIV/0!	100%		
7a	Accurate compliance determinations: Percentage of inspection reports reviewed that led to accurate compliance determinations	19	27	70.4%	100%		

8c	Appropriate SNC determinations: Percentage of files reviewed in which significant noncompliance (SNC) status was appropriately determined during the review year	2	14	14.3%	100%		
9 a	Enforcement that returns SNC sites to compliance: Percentage of enforcement responses that have returned or will return a site in SNC to compliance	12	12	100.0%	100%		
9b	Enforcement that returns SV sites to compliance: Percentage of enforcement responses that have returned or will return a secondary violator to compliance	1	1	100.0%	100%		
10b	Appropriate enforcement taken to address violations: Percentage of files with enforcement responses that are appropriate to the violations	14	15	93.3%	100%		
11a	Penalty calculations include gravity and economic benefit: Percentage of reviewed penalty calculations that consider and include, where appropriate, gravity and economic benefit	1	13	7.7%	100%		
12a	Documentation on difference between initial and final penalty: Percentage of penalties reviewed that document the difference between the initial and final assessed penalty, and the rationale for that difference	3	6	50.0%	100%		
12b	Penalties collected: Percentage of files that document collection of penalty	11	13	84.6%	100%		

Appendix C: File Selection

Files are selected according to a standard protocol using a web-based file selection tool. These are designed to provide consistency and transparency to the process. Based on the description of the file selection process below, states should be able to recreate the results in the table.

Clean Water Act

File Selection Process

At the time of the review, the State of Maryland had a 92 NPDES permitted major facilities (universe includes 2 inactive major permits), 821 NPDES non-majors with individual permits, and 2,448 non-majors with general permits. EPA focused its file selection on FY 2011 NPDES compliance and enforcement files from a comprehensive range of NPDES sectors to evaluate MDE's compliance and enforcement program.

The Round 3 File Selection Protocol for the size of MDE's regulated universe dictated that the reviewer select 35 to 40 files. Utilizing the SRF File Selection Tool in OTIS (Online Tracking Information System) and supplemented with state data, EPA Region III selected a cross-section of facilities that would be representative of MDE's NPDES compliance monitoring and enforcement activities. Following the SRF File Selection Protocol, EPA selected 40 facilities for the review. Per Step 3 of the File Selection Protocol ("Representative File Selection"), EPA identified a set of NPDES major and non-major facilities that received a compliance inspection(s) and/or formal enforcement action(s) during FY 2011. Additional selection criteria included facilities that received an informal enforcement action, and formal enforcement with penalties. Due to the absence of complete ICIS data for NPDES non-major facilities, EPA requested supplemental data from the MD, and selected a random subset of eight facilities with compliance monitoring and/or enforcement activity during FY 2011. In addition, EPA selected four additional facilities from the Data Metric Analysis (DMA) for supplemental review.

File Selection Table

The file selection table was generated using the file selection tool accessed in OTIS, and supplemented with additional data provided by MDE. The spreadsheet below provides a list of files selected for the review.

				T42	X 7: -1 - 4:	CIE.	CNI	Informal Enforcem	Formal	D	T1	C-1-
NPDES ID	City	Zip	Permit	Inspecti on	Violati on	SE V	SN C	ent	Enforcem ent	Penalt v	Univers e	Sele ction
MD002162		2071				*				J		- C01011
8	Bowie	5	POTW	0	Yes	0	0	0	0	0	Major	R
MD002166		2122									,	
1	Anne Arundel	6	Pre-Tx	5	0	0	0	0	1	0	Major	R
MD000027		2153				N/	N/				_	
2	Frostburg	2	Industrial	1	Yes	A	A	1				R
MD006828		2077										
4	Largo	4	MS4	0	0	0	0	0	0	0	Major	R
MDG01		2166										
	Secretary	4	CAFO	1	Yes	0	0	1	0	0	Minor	R
MD002163		2161	POTW									
6	Cambridge	3	Pre-Tx	3	Yes	0	0	0	1	0	Major	R
MD002276		2186										
4	Snow Hill	3	POTW	0	Yes	0	0	0	1	0	Minor	R
MD006575		2175						_		_		
7	Hancock	0	WWTP	1	Yes	0	0	0	1	0	Minor	R
MDG52307		2162										_
2	Church Creek	2	Industrial	0	No	0	0	0	1	0	Minor	R
MD002327		2103		_			•				3.51	_
2	Crownsville	2	WWTP	6	Yes	0	0	0	1	0	Minor	R
MDG01	D	2165	GA FO		* 7		Ye				2.6	ъ
	Preston	5	CAFO	1	Yes	0	S	1	2	0	Minor	R
MDG01	Mardela	2183	CAFO	2	3.7		Ye				3.41	ъ
MD005277	Springs	7	CAFO	3	Yes	0	S	1	1	0	Minor	R
MD005377	Dolling sur	2123	Industrial	Not in	TA.T / A	N/	N/	TA.T / A	TA T / A		Mair	D
MD000124	Baltimore	0	SW Industrial	ICIS	N/A	A	A	N/A	N/A	0	Major	R
MD000134	Baltimore	2123	Industrial SW	2	Vee	3	0	0	2	50.00	Maion	R
MD000265	Башпоте	2060	S W	2	Yes	3	U	0	2	50,00	Major	Х
8 8	Aguasco	8		3	Yes	0	No	0	1	800	Major	R
ð	Aquasco	0			res	U	140	1 0	1	800	wajor	K

MD002053		2187					Ye					
2	Delwar	5	POTW	12	Yes	0	S	0	1	24,159	Minor	R
MD002157		2180	POTW,									
1	Salisbury	1	Pre-Tx	5	Yes	0	No	0	1	9,750	Major	R
MD006359		2175										
2	Hancock	0		1	No	0	No	0	1	10,000	Minor	R
MD006989		2081					Ye					
2	Chevy Chase	5		0	Yes	0	S	0	1	60,000	Minor	R
MDG01		2181					Ye					
MDG01	Bishopville	3	CAFO	6	3	0	S	1	1	9,600	Major	R
MD002469		2071					Ye					
4	Lothian	1		1		0	S	0	1	4,000	Minor	R
09-GA-		2155	Constructi	Not in							Unknow	
0181	Oakland	0	on	ICIS	n/a	n/a	n/a	n/a	n/a	35,000	n	R
MD000031		2122										
1	Baltimore	6		2	Yes	0	No	0	0	0	Major	R
MD000150		2122										
3	Baltimore	6		4	Yes	0	No	0	0	0	Major	R
MD000177		2122					Ye					
5	Baltimore	6		1	Yes	0	S	0	0	0	Major	R
MD002060		2163					Ye					
5	Galena	5	POTW	4	Yes	0	S	0	0	0	Minor	R
MD002064		2155										
8	Oakland	0	POTW	5	Yes	0	No	0	0	0	Minor	R
MD002186		2064	POTW,									
5	La Plata	6	Pre-Tx	4	Yes	0	No	0	0	0	Major	R
MD005320		2061					Ye					
1	Bal Alton	1		8	Yes	0	S	0	0	0	Minor	R
MD005866		2179					Ye					
1	Woodsboro	8	POTW	7	Yes	0	S	0	0	0	Minor	R
Not found												
(Easton		2160	Constructi	Not in							Unknow	
Airport)	Easton	1	on	ICIS	Yes	0		0	0	0	n	R

MD000142		2154										
2	Luke	0		4	No	0	No	0	0	0	Major	R
MD000215		2174										
1	Hagerstown	2		3	No	0	No	0	0	0	Minor	R
MD002027		2160										
3	Easton	1	POTW	4	No	0	No	0	0	0	Major	R
MD002168		2156										
7	Western Port	2		4	No	0	No	0	0	0	Major	R
MDG01	Mardela	2183										
	Springs	7	CAFO	3	No	0	No	0	0	0	Minor	R
02-SW-		2122	Industrial									
1711	Baltimore	6	SW	7	No	0	No	0	0	0		R
MDG49803			Constructi				N/					
4	Camp Spring		on	22	4	0	A	0	0	0		
MD006830		2140										
6	Annapolis	1	MS4	0	2	0	No	3	0	0	Major	
MDR05550		2192										
1	Elkton	1	MS4	0	3	0	No	4	0	0	Minor	
MDG67503		2171										
3	Brunswick	6	MS4	0	0	0	No	4	0	0	Minor	
MDR05550		2192										
0	Elkton	2	MS4	0	No	0	No	3	0	0	Minor	
05-SF-5501		2106										
	Glen Burnie	2	MS4	0	No	0	No	0	0	0	Minor	
MD002028	Chesapeake									\$16,00		
1	Beach		WWTP							0	Major	
MD006697	Cascade											DM
4	Canada Inc										Major	A
MD000207	Berlin											DM
1	Properties										Major	A
MDG67957	La Plata											DM
1	POTW										Major	A

MD000264	Mirant						DM
0	Dickerson						A
	Glenn						Un-
unpermitted	Holland/Railro						perm
	ad Farm	CAFO				Minor	itted
							Un-
unpermitted	D. Wilkerson						perm
	Farm	CAFO				Minor	itted

Rationale for Each Selected File

File No	Facility Name	NPDES Permit No.	Type of Universe	Reason	Selection Protocol Reference
1	City of Bowie	MD0021628	Major/ POTW	No inspection, violation(s) discovered, no enforcement actions	Pg 3 – Violation without enforcement action
2	Cox Creek WRF	MD0021661	Major/ POTW Pre- Treatment	5 inspections, violation(s) discovered, no enforcement actions	Pg 3 – Inspections with violations; multiple inspections, no enforcement actions
3	Mt. Savage Firebrick Co.	08-DP-0678	Stormwater - Industrial	Inspection, violation(s) discovered, informal action	Pg 3 – Facility with Informal Action
4	Prince George's County	MD0068284	Major – Phase I MS4	25 inspections, 5 violations, 3 informal actions	Pg 3 – With Informal Action
5	Bruce J. Twilley/Twille y Farm	2010-CCD- 0437	CAFO	Informal Action	Pg 3 – Facility with Informal Action
6	Cambridge WWTP	MD0021636	Major – POTW Pretreatment	3 inspections in 2011, violations discovered, 1 formal action no penalties	Pg 3 – Facility with Formal Action
7	Snow Hill WWTP	MD0022764	Non-Major -	Violation(s) discovered, 1	Pg 3 - Facility with Formal

			POTW	formal action no penalties	Action
8	Happy Hills Campground WWTP	MD0065757	Non-Major – POTW	1 inspection in 2011, violations found, 1 formal action no penalties	Pg 3 - Facility with Formal Action
9	Pauls Pride Seafood	MDG523072	Non-Major – Industrial	0 inspection in 2011, 0 violation found, but 1 formal action	Pg 3 - Facility with Formal Action
10	Summer Hill Mobile Ho.Pk. WWTP	MD0023272	Non-Major – POTW	6 inspections in 2011, violations found, only 1 formal action without penalties	Pg 3 - Facility with Formal Action
11	William R. Thomas Jr./Bilden Farm	(No permit no. provided)	CAFO	1 inspection, 1 violation, but 1 informal action and 2 formal actions with ongoing penalties	Pg 3 - Facility with Formal Action
12	David & Rebecca Calloway/Bay Breeze Farm	2010-CCD- 0446	CAFO	3 inspections, 1 violation, 1 informal action, 1 formal action, \$800 penalties	Pg 3 - Facility with Formal Action; and Enforcement w/ Penalties
13	Guthman Elite Manufacturing	(No permit no. provided)	Stormwater – Industrial	Judicial Order Penalty, but amount is \$0	Pg 3 - Facility with Formal Action
14	American Sugar Refining Inc.	MD0001341	Major – Industrial	2 inspections, 3 SEV's, 2 formal actions with penalties	Pg 3 – Enforcement Action with penalties
15	Mirant Chalk Point, LLC	MD0002658	Major – Industrial	3 inspections in 2011, violations found, 1 formal action with \$800 penalties	Pg 3 – Enforcement Action with penalties
16	Delmar WWTP	MD0020532	Non-major – POTW	12 inspections in 2011, violations found, 1 formal action with penalties	Pg 3 – Enforcement Action with penalties; multiple inspections
17	City of Salisbury WWTP	MD0021571	Major – POTW Pretreatment	5 inspections, violations found, 1 formal action with penalties	Pg 3 – Enforcement Action with penalties

18	Saputo Cheese USA, Inc.	MD0063592	Non-Major – Industrial	1 inspection, 0 violations, but 1 formal action with penalties – discrepancy (?)	Pg 3 – Enforcement Action with penalties
19	Bi-County Water Tunnel	MD0069892	Non-Major	0 inspection, violations found, formal action with penalties	Pg 3 – Enforcement Action with penalties; no inspection but with violations
20	Jacobs Farm Inc.	67881, 2009- CCD- 0290	CAFO	6 inspections, 3 violations, 1 informal action, 1 formal action with penalties	Pg 3 – Enforcement Action with penalties; multiple inspections
21	Patuxent Mobile Estates WWTP	MD0024694	Minor, individual permit	Headquarters' discretion; Single Event Violations with penalties	Pg 3 – Enforcement Action with penalties
22	Grace Davison – Curtis Bay	MD0000311	Major	2 inspections in 2011, violations found, no enforcement actions	Pg 3 – Multiple inspections and violations, no Enforcement Actions
23	Constellation Power Source, Inc.	MD0001503	Major - Industrial	4 inspections in 2011, violations found, no enforcement actions	Pg 3 – Multiple inspections and violations, no Enforcement Actions
24	Erachem Comilog, Inc.	MD0001775	Major - Industrial	1 inspection, violations found, no enforcement actions	Pg 3 – Multiple inspections and violations, no Enforcement Actions
25	Galena WWTP	MD0020605	Non-Major – POTW	4 inspections in 2011 for a non-major, violations found, Category 1 SNC, no enforcement actions	Pg 3 – Multiple inspections and violations, no Enforcement Actions
26	Oakland WWTP	MD0020648	Non-Major – POTW	5 inspections in 2011 for a non-major, violations found, no enforcement actions	Pg 3 – Multiple inspections and violations, no Enforcement Actions
27	Mattawoman WWTP	MD0021865	Major – POTW, Pretreatment	4 inspections in 2011, violations found, no enforcement actions	Pg 3 – Multiple inspections and violations, no Enforcement Actions
28	Relax Inn WWTP	MD0053201	Non-Major	8 inspections in 2011,	Pg 3 – Multiple inspections and

				violations found, Category 1 SNC, no enforcement actions	violations, no Enforcement Actions
29	Woodsboro WWTP	MD0058661	Non-Major – POTW	7 inspections in 2011 for a non-major, violations found, Category 1 SNC, no enforcement actions	Pg 3 – Multiple inspections and violations, no Enforcement Actions
30	Easton Airport	(None provided)	Stormwater- Construction	Violations found, no enforcement actions	Pg 3 – Multiple violations, no Enforcement Actions
31	Wal-Mark Store #2272	10DO0026	Stormwater Construction	6 inspections, 4 violations found, no enforcement actions	Pg 3 – Multiple inspections and violations, no Enforcement Actions
32	Newpage Corporation D,B,A, Luke Paper Co.	MD0001422	Major – Industrial	4 inspections in 2011, 0 violations	Pg 3 – Multiple inspections, no violations
33	Holcim (US) Inc.	MD0002151	Non-Major- Industrial	3 inspections in 2011, 0 violations	Pg 3 – Multiple inspections, no violations
34	Easton WWTP	MD0020273	Major – POTW	4 inspections in 2011, 0 violations	Pg 3 – Multiple inspections, no violations
35	Upper Potomac River Comm STP	MD0021686	Major	4 inspections in 2011, 0 violations	Pg 3 – Multiple inspections, no violations
36	Steven Brad Webster/Oak Hill Farms	2011-CCD- 0452	CAFO	3 inspections in 2011, 0 violations	Pg 3 – Multiple inspections, no violations
37	Western Acceptance Facility	02-SW-1711 (10889)	Stormwater – Industrial	4 inspections, 0 violations	Pg 3 – Multiple inspections, no violations
38	Andrews Air Force Base	MDG498034	Stormwater- Construction	22 inspections, 4 violations, no enforcement actions	Pg 3 – Multiple inspections, few violations, no enforcement actions
39	Anne Arundel	MD0068306	Stormwater-MS4	12 inspections, 2 violations	Pg 3 – Multiple inspections, few

			Phase I	found, 3 informal	violations, no enforcement	
				actions/letters	actions (?)	
40	Cecil County	(None	Stormwater –	17 inspections, 3 violations	Pg 3 – Multiple inspections, few	
		provided)	MS4 Phase II	found, 4 informal	violations, no enforcement	
				actions/letters	actions (?)	
41	Brunswick	(None	Stormwater –	2 inspections, 0 violations, 4	Pg 3 – Multiple inspections, no	
		provided)	MS4 Phase II	informal actions/letters	violations, yet 4 informal	
					enforcement actions	
42	Elkton	(None	Stormwater –	2 inspections, 0 violations, 3	Pg 3 – Multiple inspections, no	
		provided)	MS4 Phase II	informal actions/letters	violations, yet 3 informal	
					enforcement actions	
43	MDOT – MD	(None	Non-major –	0 inspections, 0 enforcement	Supplemental Review	
	Motor Vehicle	provided)	stormwater	actions, lack of		
	Admin			data/paperwork		
	(MVA), Mult					
	prop					
44	Chesapeake Beach	MD0020281	Major	Consent Order \$16,000	Supplemental Review	
45	Cascade Canada	MD006697	Major	DMA discrepancy	DMA Supplemental Review	
	Inc.					
46	Berlin Properties	MD0002071	Major	DMA discrepancy	DMA Supplemental Review	
47	La Plata WWTP	(None	Major	DMA discrepancy – 3	DMA Supplemental Review	
		provided)		consecutive overrides,		
				enforcement actions need		
				to be linked to violations		
48	Mirant Dickerson	(None		DMA discrepancy -	DMA Supplemental Review	
		provided)		Unauthorized discharge		
49	Glenn	UNPERMITT	CAFO	Priority Initiative; unpermitted	Supplemental Review	
	Holland/Railro	ED		facility – backlog		
	ad Farm					
50	Phillip R. Jr &	UNPERMITT	CAFO	Priority Initiative; unpermitted	Supplemental Review	
	Lyle D.	ED		facility – backlog		
	Wilkerson					
	(multiple					

facilities)				
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Clean Air Act

File Selection Process

The following is the file selection process and files selected for the CAA program:

A. File Selection Process

There were 146 facilities in the file selection tool. From the Table on page 1 in the SRF File Selection Protocol (State Review Framework Round 3), the range of facilities to select for review is from 25 to 30. Twenty seven (27) files were selected for this review. Twenty-one (21) were representative files and the remaining six (6) were supplemental files. In consultation with the Office of Enforcement and Compliance Assurance (OECA), EPA Region III randomly selected a sample that included a mix of universe types, sectors, and geographical locations.

Breakdown of representative files selected (21 files total).

Major Sources (11 files):

- 1) Sources with Compliance Monitoring activity without Enforcement: 3
- 2) Sources with Enforcement without Compliance Monitoring activity: 5
- 3) Sources with both Enforcement and Compliance Monitoring activity: 3

Synthetic Minor Sources (5 files):

- 1) Sources with Compliance Monitoring activity without Enforcement: 3
- 2) Sources with Enforcement without Compliance Monitoring activity: 1
- 3) Sources with both Enforcement and Compliance Monitoring activity: 1

Tier 2 Minor Sources (5 total):

- 1) Sources with Compliance Monitoring activity without Enforcement: 3
- 2) Sources with Enforcement without Compliance Monitoring activity: 2

3) Sources with both Enforcement and Compliance Monitoring activity: 0

Supplemental File Selection (6 files total)

Supplemental files were used to ensure that the Region had enough files to review and to understand whether a potential issue or concern that was shown by the data analysis was in fact an issue or concern. The Data Metric Analysis did not show any data metrics of potential concern. However, the SRF Rounds 1 and 2 did reveal a potential concern of MDE's ability to apply the HPV definition to violations discovered at major sources. Therefore an additional five (5) major sources with violations that did not rise to the level of an HPV was chosen for this review as supplemental files.

Finally, there was only one (1) major source with a failed stack test during the review year. This source did not rise to the level of an HPV. Therefore, this source was chosen for the review as a supplemental file.

Appendix C (continued): File Selection Table

Facility ID Number	Facility City	Facilit y Zip Code	Full Complian ce Evaluatio ns	Stack Tests Faile d	Violatio ns	HPV s	Inform al Actions	Formal Action s	Penalties	Universe	Selection Value
24001000 11	Luke, Maryland	21540	0	0	1	0	0	0	0	Major	Accepted Supplemental
24003003 09	Baltimore, Maryland	21226	4	0	1	3	3	2	35000	Major	Accepted Representative
24005001 47	Sparrows Point, Maryland	21219	0	0	1	0	0	3	135000	Major	Accepted Representative
24005002 36	Baltimore, Maryland	21236	2	0	1	0	0	2	75000	Major	Accepted Representative
24005009 79	Dundalk, Maryland	21222	0	0	1	0	3	6	35000	Major	Accepted Representative
24005012 74	Perry Hall, Maryland	21236	1	0	0	0	0	0	0	Tier II Minor	Accepted Representative
24005024 06	Rosedale, Maryland	21237	0	0	0	0	0	2	0	Tier II Minor	Accepted Representative
24013000 12	Union Bridge, Maryland	21791	0	0	1	3	0	0	0	Major	Accepted Supplemental
24017000 14	Newburg, Maryland	20664	0	0	1	0	0	0	0	Major	Accepted Supplemental
24017000 40	Indian Head, Maryland	20640	4	0	1	0	4	0	0	Major	Accepted Representative
24021000 37		21704	0	0	0	0	2	0	0	Synthetic Minor	Accepted Representative

	Frederick, Maryland										
24021001 31	Frederick, Maryland	21702	4	1	1	0	3	0	0	Major	Accepted Supplemental
24021001 40	Emmitsburg, Maryland	21727	2	0	1	0	0	1	40000	Synthetic Minor	Accepted Representative
Facility ID Number	Facility City	Facilit y Zip Code	Full Complian ce Evaluatio ns	Stack Tests Faile d	Violatio ns	HPV s	Inform al Actions	Formal Action s	Penalties	Universe	Selection Value
24021002 34	Frederick. Maryland	21704	2	0	0	0	0	0	0	Major	Accepted Representative
24021002 54	Point of Rocks, Maryland	21777	0	0	1	2	2	2	29000	Major	Accepted Representative
24023000 02	Accident, Maryland	21520	2	0	0	0	0	0	0	Synthetic Minor	Accepted Representative
24023000 42	Oakland, Maryland	21550	0	0	1	0	0	0	0	Major	Accepted Supplemental
24025001 84	Bel Air, Maryland	21014	1	0	0	0	0	0	0	Tier II Minor	Accepted Representative
24031000 19	Dickerson, Maryland	20842	0	0	1	0	4	0	0	Major	Accepted Supplemental
24033000 10	College Park, Maryland	20742	3	0	0	0	0	0	0	Major	Accepted Representative
24033013 52	Temple Hills, Maryland	20748	1	0	0	0	0	0	0	Tier II Minor	Accepted Representative

24039001	Pocomoke,	21851	3	0	0	0	0	0	0	Synthetic	Accepted
44	Maryland	21031			Ü	0	O	O	O	Minor	Representative
24043000	Williamsport,	21795	0	0	1	2	2	2	30000	Major	Accepted
05	Maryland	21793	U	U		4	4	2	30000	Wajoi	Representative
24043000	Hagerstown,	21742	0	0	1	2	0	4	85000	Major	Accepted
06	Maryland	21/42	U	U	1	2	U	7	05000	Wajoi	Representative
24043000	Hagerstown,	21742	4	0	1	0	0	2	0	Major	Accepted
08	Maryland	21/42	4	U	1	U	U	2	U	Major	Representative
24510024	Baltimore.	21223	0	0	0	0	0	1	0	Tier II	Accepted
69	Maryland	21223	U	U	U	U	U	1	U	Minor	Representative
24510034	Baltimore,	21201	1	0	0	0	0	0	0	Synthetic	Accepted
88	Maryland	21201	1	U	U	U	U	U	U	Minor	Representative

Resource Conservation and Recovery Act File Selection

Process: The RCRA program using the file selection tool selected 17 files with violations including SNC, formal and informal actions, penalties, and inspections. An additional 13 supplemental files were selected at random.

	State		Indian					Informa	Formal		
	Distric	County	Countr		Inspection	Violation	SN	I	Action	Penalt	
ID Number	t	Code	У	Universe	S	S	С	Actions	S	У	Flag Value
											Accepted
MD0000932590		MD003	No	SQG	1	7	0	1	1	1500	Representative
MD4170024687		MD031	No	TSDF LQG	1	0	0	0	0	0	Accepted Supplemental
MDD00061971											
8		MD003	No	LQG	1	0	0	0	0	0	Accepted Supplemental
MDD00189006											
0		MD029	No	LQG	1	0	0	0	0	0	Accepted Supplemental
MD4170090001			No	TSDF LQG	2	0	0	0	0	0	Accepted Supplemental
MDD00324893											Accepted
7		MD033	No	LQG	1	10	0	1	0	0	Representative
MDD02250511											Accepted
9		MD510	No	SQG	0	0	0	0	1	500	Representative
MDD02265873											Accepted
6		MD031	No	LQG	1	9	0	1	0	0	Representative
MDD04414885											
6		MD510	No	LQG	1	0	0	0	0	0	Accepted Supplemental
MDD05234097											Accepted
3		MD510	No	LQG	1	3	0	1	1	0	Representative
MDD05490028											Accepted
7		MD015	No	LQG	1	9	0	0	0	0	Representative
MDD06487405											
0		MD510	No	SQG	1	0	0	0	0	0	Accepted Supplemental
MDD09133652											Accepted
9		MD033	No	SQG	0	0	0	0	1	15000	Representative
MDD00306712											
1			No	TSDF LQG	1	0	0	0	0	0	Accepted Supplemental
MDD98083206											
7		MD005	No	SQG	1	0	0	0	0	0	Accepted Supplemental

MDD98256621			1							1
8	MD033	No	LQG	1	0	0	0	0	0	Accepted Supplemental
MDD98257390										Accepted
9	MD015	No	LQG	1	2	0	1	0	0	Representative
MDD98258039										Accepted
1	MD031	No	CESQG	0	0	0	0	1	750	Representative
MDD98537663										Accepted
1	MD033	No	LQG	1	9	0	1	1	0	Representative
MDD98538656										Accepted
4	MD005	No	LQG	1	8	0	1	1	0	Representative
MDD98540032										Accepted
4	MD510	No	LQG	1	1	0	0	0	0	Representative
MDD98541259										Accepted
2	MD005	No	SQG	1	1	0	0	0	0	Representative
			TSDF LQG							·
MDD98082987			Transporte							
3		No	r	2	0	0	0	0	0	Accepted Supplemental
MDR00001239										
3	MD031	No	SQG	1	0	0	0	0	0	Accepted Supplemental
MDR00051035										
4	MD005	No	LQG	1	0	0	0	0	0	Accepted Supplemental
MDR00051859										Accepted
7	MD033	No	Other	2	3	0	1	1	600	Representative
MDR00051985								-	1	Accepted
7	MD005	No	CESQG	0	0	0	0	1	35000	Representative
MDR00052391	111233		0=04,0					-		Accepted
5	MD510	No	LQG	1	6	0	0	0	0	Representative
MDR00052443	2510	1		-		†		†	†	
4	MD033	No	LQG	1	0	0	0	0	0	Accepted Supplemental
MDR00052503	200	1		-	1	+ -		<u> </u>	+ -	Accepted
6	MD045	No	CESQG	1	8	0	1	1	1500	Representative
-	1112040	110	02000	•	-	+ -	1	'	1000	- reproduitativo

Appendix D: Status of Past SRF Recommendations

During the Round 1 and 2 SRF reviews, the following recommended actions were developed. The recommendations are described below:

Round	Status	Due Date	Media	E#	Element	Finding	Recommendation
Round 1	Completed	05/29/2008			Collected	_	MDE should capture all compliance and enforcement activities in PCS.
Round 1	Working	05/29/2008	CWA			in enforcement files	Enforcement files should include information regarding penalty calculation. MDE should be entering penalty information into PCS.
Round 2	Working	04/30/2010	CWA		Calculation Method	observe documentation of gravity or economic benefit calculations in the penalty files reviewed.	Maryland state law does not require MDE to collect economic benefit. However, MDEs enforcement procedure provides that they will collect any economic benefit of noncompliance where possible. The enforcement fields should contain copies of penalty calculations.

Round 2	Working	04/30/2010	CWA	Coverage	MDE did not conduct inspections at 100% of its major universe of NPDES permittees.	Inspection reports for 11 MS4 individual majors were not observed in the data system or central files. The review team was informed that these inspections are not conducted annually; rather MDE evaluates their performance based upon each county's submission of annual program implementation plans.
Round 2	Working	04/30/2010	CWA	Data Accuracy	There were several enforcement actions with absent or inaccurately coded data in ICIS.	Penalty data missing for one facility, incorrectly coded enforcement actions at one or more NPDES permits.
Round 2	Working	04/30/2010	CWA	Assessment	The review team did not observe documentation in the files reviewed that would identify the differences between initial and final penalties in the file.	Of the 5 penalty reviews conducted, one documented a 35% penalty reduction and another documented an initial penalty and an assessed penalty. A rationale for either of these was not identified in the file.
Round 2	Working	04/30/2010	CWA	of	MDE did not conduct inspections at 100% of its major universe of NPDES permittees.	Inspection reports for 11 MS4 individual majors were not observed in the data system or central files. The review team was informed that these inspections are not conducted annually; rather MDE evaluates their performance based upon each counts submission of annual program implementation plans.

Appendix E: Program Overview

Agency Structure

In 1987, the Maryland Department of the Environment (MDE) was created to protect and preserve the state's air, water and land resources and safeguard the environmental health of Maryland's citizens. MDE's duties also encompass enforcement of environmental laws and regulations, as well as long-term planning and research. MDE also provides technical assistance to Maryland businesses and communities for pollution and growth issues. The agency employs approximately 900 staff and its main office is located in Baltimore, MD. MDE has eight field offices divided into the following regions with managers assigned to each region:

Western Maryland region: Allegany, Carroll, Frederick, Garrett, Montgomery, and Washington County. The NPDES program has a field office in Frostburg, and a satellite office in Hagerstown.

Central Maryland region: Anne Arundel, Baltimore, Calvert, Charles, Harford, Howard, Prince George's, and St. Mary's Counties as well as Baltimore City. The Central Office includes the main office located in Baltimore and a Field Operations Office located in Annapolis.

Eastern Shore region: Caroline, Cecil, Dorchester, Kent, Queen Anne's, Talbot, Somerset, Wicomico, and Worcester Counties. In addition, Water Management has a field office in Cambridge, MD and Waste Management has a field office in Centreville.

MDE has the following seven broad goals to measure its progress in achieving its mission and vision:

- 1. Promoting Land Redevelopment and Community Revitalization
- 2. Ensuring Safe and Adequate Drinking Water
- 3. Reducing Maryland Citizens' Exposure to Hazards
- 4. Ensuring the Safety of Fish and Shellfish Harvested in Maryland.
- 5. Improving and Protecting Maryland's Water Quality
- 6. Ensuring the Air is Safe to Breathe
- 7. Providing Excellent Customer Services to Achieve Environmental Protection

MDE has three media-specific administrations: Air and Radiation Management Administration, Waste Management Administration, and Water Management Administration. There are two additional administrations that provide administrative and technical support to the Air, Water and Waste management administrations. MDE's workforce is comprised of field inspectors, permit writers, engineers and scientists. In addition, MDE has administrative, clerical, management, information technology and financial personnel, planners, legal counsel, and other professionals.

MDE Compliance and Enforcement Program Structure

The compliance and enforcement programs are housed within the Air and Radiation Management Administration, Water Management Administration and Land Management Administration.

MDE has an internal guidance document (MDE Enforcement Procedures) which sets forth the Department's civil and administrative enforcement and criminal referral procedures as it applies to addressing violations of any statutory, regulatory or permit requirement. The enforcement procedures document includes guidance on classification of violations, timely and appropriate enforcement response, initiation of a civil action, initiation of an administrative action, including penalties, the identification of significant non-compliance and timeframe for addressing and escalation of an enforcement matter including referring violations either to EPA Region III and to their criminal enforcement division of the Attorney General's Office.

NPDES Compliance and Enforcement Program Structure:

MDE's NPDES compliance monitoring and enforcement program is implemented through two organizations within MDE, the Land Management and Water Management Administrations. The Land Management Administration is responsible for the following three NPDES programs: 1) Oil Control (oil terminal discharges and groundwater remediation discharges from oil contamination): 2) NPDES Mining (compliance monitoring/enforcement of mineral mines and coal mines as well as processing of Notices of Intent (NOI) for general permits); and 3) CAFO. The remaining three NPDES programs are located in the Water Management Administration: 1) Wastewater Permits; 2) NPDES Compliance Program; and 3) Nonpoint Source Program (MS4s and related NPDES storm water permits).

The NPDES Compliance Program in MDE's WMA performs a number of critical functions to prevent and address issues associated with water pollution. The Compliance Program has approximately 35 inspectors working out of regional field offices in Frostburg, Hagerstown, and Cambridge, as well as the central office in Baltimore, MD.

Local Agencies Included and Excluded From Review

None

Roles and Responsibilities

MDE is delegated to directly implement all NPDES program areas. Under MDE's organizational structure, the Director of the WMA oversees the Compliance Program., There are three inspection division chiefs and an enforcement division chief who work under the direction of Thomas C. Boone, Director of the Compliance Program, and Dave Lyons, Deputy Director of the Program. Compliance program inspectors are responsible for inspections related to the following NPDES program sectors:: NPDES individual and general discharge permits; state groundwater discharge permits; erosion and sediment control; coal mining and non-coal mining; tidal and non-tidal wetlands; citizen complaints; and sewer overflows or other unauthorized

discharges of pollutants to waters of the State. MDE's NPDES inspectors average 400 to 450 inspections per year involving various NPDES program sectors.

MDE's Compliance Program assigns each inspection a priority. Routine inspections are scheduled based on the assigned priority and as workload allows. Facilities are not given advance notification of routine inspections. At any time during the process, the inspection frequency can be adjusted as site conditions or workload demand. The Compliance Program also responds to complaints from citizens across all NPDES facility types. During FY 2011, the Compliance Program received nearly 1,300 citizen complaints. When an inspection reveals a significant violation, or if minor violations continue to recur and become a significant problem, MDE addresses the violation with an escalated enforcement response such as formal enforcement with penalty, corrective order, injunction, and criminal sanctions.

MDE's formal enforcement options include administrative actions which are adjudicated through the Office of Administrative Hearings and judicial actions which are civil or criminal proceedings. Administrative and civil actions can result in orders and/or penalties while criminal proceedings can result in fines and/or imprisonment. Legal support for administrative and civil enforcement is provided by the MD Office of the Attorney General (AG). MDE Compliance Program staff issue informal Notices of Violation (NOV) as well as administrative penalty orders to address more serious or continuing violations. Larger cases which often require injunctive relief, are handled through civil actions, and are referred to the MD AG.

The Attorney General's Environmental Crimes Unit (ECU) investigates and prosecutes environmental crimes in Maryland. The ECU is a criminal investigation and prosecution unit under the direction of the Criminal Division of the Attorney General's Office. The ECU Unit currently includes three Assistant Attorneys General, one civilian investigator with extensive environmental science and investigation backgrounds, and one Maryland State Police trooper assigned as an investigator. MDE provides support to the ECU, promoting regular interaction with MDE inspectors and other technical experts.

Resources

Central Division (located in Baltimore): 14 inspectors, 3 managers (1 division chief and 2 district managers), 1 division secretary assisted by 2 additional program secretaries. At the time of the SRF file review there were 3 vacancies.

Eastern Division (located in Cambridge Office): 11 inspectors, 3 managers (1 division chief and 2 district managers), 2 division secretaries.

Western Division (located in Frostburg and Hagerstown): 11 inspectors, 3 managers (1 division chief in Frostburg and 2 district managers in Hagerstown), 2 division secretaries (one in Frostburg, one in Hagerstown). At the time of the SRF file review there was 1 vacancy.

Enforcement Division (located in Baltimore Office): 4 enforcement coordinators, 3 managers (1 division chief and 2 enforcement managers), 1 division secretary assisted by 2 additional program secretaries, 3 contractual enforcement specialists, 1 contractual data entry specialist, 1

Environmental Compliance Specialist (ECS) III, 1 functional analyst, 1 senior programmer/analyst, 3 administrative officers.

Resource Planning and Utilization Division (located in Baltimore Office): 3 staff for ICIS activities, 2 staff for computer support and data related activities, 1 staff for general permit and public information act activities, 1 manager (division chief), and 3 secretaries.

During FY 2011, MDE was impacted by a number of resource constraints. MDE's overall inspector workforce decreased almost 6% during FY 2011. MDE has reduced staff levels in all areas due to budget constraints. In addition to ongoing budget issues that have eliminated positions, the State had a Voluntary Separation Program in FY 2011 that resulted in additional loss of positions. Filling vacant positions remains difficult due to a hiring freeze. Due to lack of consistent funding, and a hiring freeze, MDE was unable to fill several vacancies for NPDES inspectors. In addition, general State and federal budgetary challenges increasingly constrain MDE's compliance and enforcement activities.

Staffing and Training

The Water Management Administration does not have a defined curriculum for training of the NPDES enforcement and compliance monitoring staff. Training for new inspectors consists of an orientation session that provides an overview of MDE and the Water Management Administration organization. MDE also provides training in the field for new inspectors by pairing new hires with an experienced inspector for a period of six months. In addition to in-field training, MDE conducts monthly division-level meetings and several full program staff meetings each year. These meetings include training modules related to various inspection, compliance and enforcement topics. MDE also conducts an 'inspector forum" annually that provides a day of training and information exchange for all inspectors. Staff members are also encouraged to attend training provided by the Maryland Center for Environmental Technology (MCET). This training includes numerous courses related to wastewater treatment, plant operation and maintenance, and associated topics. When possible, (based on location and funding availability) staff members also attend training provided by EPA, the Corps of Engineers and various other providers, such as public health or environmental organizations.

Data Reporting Systems and Architecture

The Water Management Administration employs several databases for managing NPDES compliance monitoring and enforcement information. MDE's main information management data system is an enterprise environmental management system (EEMS) known as Tools for Environmental Management and Protection Organizations (TEMPO). TEMPO is an Oracle-based relational database management system. MDE began using TEMPO on July 1, 2008. Data held in TEMPO includes NPDES permit information, completed inspection reports, and facility compliance data related to specific regulatory requirements applicable to the facility. The compliance program uses TEMPO to record field inspection reports conducted by its inspectors through a TEMPO module called TRIP (Tempo Remote Inspection Program).

MDE is currently working on an initiative to allow compliance and enforcement data in TEMPO to interface with the ICIS national data base system. At the present time, MDE's compliance program enters all NPDES inspections into ICIS through a separate process. Inspectors provide logs of NPDES inspections to the MDE ICIS team and the team enters the information manually. In addition, MDE maintains, and regularly updates an internal Excel spreadsheet to track enforcement actions under development. When an enforcement action becomes final, MDE enters the data into the Standard Quality Limits (SQL)-based database for tracking, including penalty payments. The Enforcement Division also provides the ICIS team with data sheets for each completed NPDES enforcement actions, and the team manually enters the information into ICIS.

MDE enters discharge permits, discharge monitoring reports (DMRs), inspection dates, enforcement actions for NPDES majors, and individual non-majors as well as general permits into ICIS. MDE relies on Excel spreadsheets for all municipal storm water permits.

In addition, the CAFO program, which is located outside of the WMA in the Land Management Administration, does not enter or upload CAFO compliance monitoring and enforcement information into ICIS.

The Water Permits Program (WPP) currently uses a permit tracking system known as PERT. However, MDE will transition permit tracking to the TEMPO database in 2013. Until the TEMPO system is fully operational, MDE continues to use an existing in-house database system that provides current permit tracking information. MDE has not yet linked electronic DMRs to the national database.

Other database systems used by the WMA include: Problem Activity Form (PAF) system which tracks citizen tips and complaints; "Beast" (not an acronym) which tracks all cases under development by the compliance program and includes other media cases; Sanitary Sewer System (SSO) /Combined Sewer System (CSO) and bypass information is tracked in the Maryland Reported Sewer Overflow database posted on MDE's website; a state-wide Financial Management Information System (FMIS) used for accounts receivable; internal Excel spreadsheets to log DMRs and track consent decrees; a violation penalty database to track completed enforcement actions and payments of penalty invoices; and the E5/H5 list which is a table on the internal share directory that tracks cases involving high levels of environmental/public health impacts. The WPP also develops and tracks nutrient and total suspended solids (TSS) loading for the Chesapeake Bay TMDL (goals have been specified for each waterbody segment). Maryland began implementing enhanced nutrient removal (ENR) in 2005 to address water quality problems in the Bay. Currently, MDE can examine Chesapeake Bay TMDL compliance by county or segment (MDE has implemented 97% of the Chesapeake Bay TMDL in NPDES permits).

Air Compliance and Enforcement Structure:

The Air Quality Compliance Program (AQCP) of the ARMA is divided into four Divisions and one Office. Those are the Process Compliance Division, Industrial Compliance Division, Field

Services Division, Asbestos Division and the Compliance Services Office (CSO). The AQCP also has two regional offices, one in Salisbury, MD and one in Frostburg, MD.

The AQCP is responsible for ensuring compliance with air quality laws and regulations, inspecting air pollution sources, investigating and resolving public complaints about odors and air pollution, regulating asbestos, and taking appropriate enforcement action for failure to comply. The AQCP also maintains and tracks records of stationary sources of air pollution, including compliance and enforcement data.

Roles and responsibilities: MDE is delegated or approved to directly implement all aspects of the CAA Stationary Source permitting, compliance monitoring and enforcement program. MDE administers and enforces federal and state regulations that cover stationary sources in Maryland.

The Process Compliance Division, Industrial Compliance Division and the Field Services Division are responsible for most aspects of compliance monitoring and enforcement for MDE at stationary sources. The CSO handles all compliance and enforcement data entered into the state and federal data systems. Legal support for administrative and civil enforcement actions is handled by the Maryland Office of the Attorney General.

MDE attempts to settle many violations administratively. When a violation is found a Notice of Violation (NOV) is sent to the violating source by the inspector. The inspector has the authority to sign the NOV. Where penalties are relatively low and significant attorney involvement may not be necessary, a Notice of Proposed Civil Penalty shortly follows the NOV with the directions to the violator regarding payment of the penalty, how to request an informal meeting with MDE and rights of appeal. If the violator opts for a meeting and negotiations are favorable, a Notice of Assessed Civil Penalty will be issued with the final penalty amount. Any corrective action necessary may be handled by a Corrective Order or Consent Order.

More complicated, larger cases are usually handled through civil action and are referred to the Attorney General's Office. Referrals are accomplished in writing, often including conversations between the Air Program Manager, the Director for the Air & Radiation Management Administration, and the Attorney General's Office. Before going to court, an Opportunity to Settle Letter is issued to the source in an attempt to avoid litigation. Negotiations are handled through the MDE attorney and the facility attorney. If negotiations fail the case will go to court. Criminal cases are handled by the Environmental Crimes Unit.

Addressing actions, for the purpose of the HPV Policy, include the Notice of Assessed Civil Penalty and a civil referral made to the Attorney General's Office.

Resources: Funding for the AQCP comes from Title V fees and penalties collected. Title V fees and penalties go into the Maryland Clean Air Fund which is used to support ARMA operations. EPA Section 105 grant provides some funding, but use of these funds is limited to activities that are not covered under Title V. Other Maryland agencies also provide some revenue. For example, the Maryland Department of Transportation provides funding for Stage II and the Department of Natural Resources provides funding for power plant reviews.

Safety equipment is provided for all personnel as needed. Vehicles are also provided through MDE.

Staffing/Training: The AQCP has 39 full time employees (FTEs). As of July 2012, eight (8) FTEs were in the asbestos program, which currently has two (2) vacancies. That leaves 31 FTEs in the AQCP. Compared to the Round 2 SRF in 2008, the total FTEs has only decreased by 1 FTE.

The AQCP has a Training Guide for new and existing employees. Each Division has different required training courses based upon the types of facilities they inspect. It is mandatory that all employees have health and safety training annually and receive a Visible Emission Certification every six months. The Supervisor of the CSO is the training coordinator for the AQCP. An annual training report is sent to the Human Resources office and the AQCP Program Manager. It provides details on every employee's training for the year. The Supervisor stated to the EPA Review Team that necessary training is never denied.

Data Reporting Systems and Architecture: MDE does not currently have a state data system to track compliance monitoring and enforcement activities. As a result they are direct users of the AFS. The ARMA, CSO is responsible for air program data flow and quality assurance. Each engineer or field inspector is responsible for submitting their compliance and enforcement activities to the CSO using a form from the ARMA named the ARMA-34 by the 10th of each month. The Supervisor of the CSO will then review the report forms ensuring that all MDR requirements have been met and are being accurately reported, making changes (e.g. action type codes) to the forms, as appropriate. The CSO will then indicate using a check mark that the form has been reviewed for accuracy and is ready to be entered into AFS. The data is entered into AFS 2 to 3 times a week. A report is generated from AFS on a weekly or biweekly basis to ensure and verify that the data has been entered into AFS properly.

MDE's Air Quality Compliance Program has been working toward implementing Tools for Environmental Management and Protection Organization (TEMPO). Upon completion, TEMPO will be used to transfer federally reportable data to AFS.

RCRA Compliance and Enforcement Structure:

MDE's compliance monitoring and enforcement staff is responsible for inspecting hazardous waste facilities, generators, transporters, tips and complaints. Under RCRA C Grant, 20 TSD facilities each grant year and 20% of the LQG universe (approximately 120 sites). The number of complaints always is variable.

Resource Constraints: There are a couple of issues affecting resource constraints in the RCRA program. Grant funding provided by EPA has been flat-lined for the last 10 years, very little general funds, and special funds are distributed in variety of ways. The number of inspectors has been reduced over time. With a limited number of inspectors, a complicated case could tie up an inspector resulting in that inspector conducting fewer inspections in that year.

Training: The RCRA inspectors are required to have the following training:

- 80 hour hazmat personnel protection and safety course: Required by OSHA 1910 standard
- Miscellaneous courses (if available) through EPA or NEEP: Basic Inspector Training
- "On the job" training

There is currently no formalized program specifically designed for hiring and maintaining qualified staff in the RCRA Compliance Program. There is no field office staff in the RCRA program in our field offices.

Appendix F: SRF Correspondence

MARYLAND SRF ROUND 3

Timeline of DMA and File Selection Process

6/27/12	Data Metric Analysis (DMA) completed
6/28/12	DMA to MDE and EPA Headquarters
7/02/12	Comments on DMA received into R3 from EPA Headquarters
7/11/12	Comments on DMS discrepancies received into R3 from MDE
7/23/12	File Selection completed using OTIS File Selection Tool, but the Selection
	Tool lacked non-core programs info (i.e. MS4, Industrial storm water,
	construction storm water, and CAFO)
7/23/12	Requested additional information from MDE on non-core programs that
	are not in ICIS/OTIS
7/30/12	Follow-up calls to MDE departments requested data
8/2/12	Follow-up e-mails to MDE departments on requested data
8/2/12	Received CAFO data from Gary Kelman
8/2/12	Received storm water Active Construction Permit info from C. Coates
8/3/12	Received industrial storm water data/info from C. Coates
8/3/12	Received construction inspection data/info from C. Coates
8/6/12	Received industrial storm water inspections data from C. Coates
8/6/12	Received partial MS4 info from R. Bahr
8/8/12	Received revised, partial MS4 info from R. Bahr; Violations column
	missing
8/9/12	Received revised, partial MS4 info from R. Bahr; Violations column
	complete
8/9/12	Received revised, complete MS4 info from R. Bahr
8/9/12	Met with M. Price-Fay and C. Menen on File Selection Planning
8/10/12	Sent completed, revised/polished File Selection along w/ Selection
	Rationale/Narrative to M. Price-Fay and C. Menen to comments
8/16/12	Conference call w/ EPA HQ to discuss comments on the File Selection
8/16/12	Sent revised File Selection to M. Price-Fay
8/20/12 at 3:25pm	M. Price-Fay sent final File Selection to MDE with proposed
	review schedule (wk of 9/17/12 or 9/24/12)

Correspondence Air

1. Data Metric Analysis Transmittal Email to MDE.

File Selection for SRF Round 3 Danielle Baltera to: fcourtright 07/11/2012 12:45 PM

Cc: ldaniel Show Details Frank,

The file selection is attached. Please let me know if you have any questions.

Thank you, Danielle