

STATE OF MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

LANSING



GRETCHEN WHITMER GOVERNOR

June 15, 2021

VIA EMAIL AND U.S. MAIL

Dr. Ethel Crisp, PhD, Senior Environmental Protection Specialist/Regional Intern Coordinator
Land, Chemicals, and Redevelopment Division
United States Environmental Protection Agency, Region 5
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

Dear Dr. Crisp:

SUBJECT: Michigan Fiscal Years 2022 and 2023 Federal Resource Conservation and Recovery Act of 1976, as Amended (RCRA), Grant Application Work Plan (Work Plan)

Enclosed is the fiscal years' 2022 and 2023 RCRA Work Plan prepared by the Michigan Department of Environment, Great Lakes, Energy (EGLE), Materials Management Division (MMD), to identify for the United States Environmental Protection Agency (USEPA) MMD activities in support of the RCRA State and Tribal Assistance Grant.

If you have any questions or concerns regarding this Work Plan, please contact Ms. Kimberly M. Tyson, Manager, Hazardous Waste Section, MMD, at 517-388-2797; <u>TysonK@Michigan.gov</u>; or EGLE, MMD, P.O. Box 30241, Lansing, Michigan 48909.

Sincerely,

Hisalrth M. Browne

Elizabeth M. Browne, Director Materials Management Division

Enclosure

cc: Ms. Kimberly G. O'Lone, U.S. EPA Mr. Bryan Gangwisch, U.S. EPA Ms. Liesl Eichler Clark, Director, EGLE Mr. Aaron B. Keatley, Chief Deputy Director, EGLE Ms. Amy Epkey, Senior Deputy Director, EGLE Mr. Ed Willoughby, EGLE Mr. Robert Jackson, EGLE Ms. Tracy Kecskemeti, EGLE Ms. Tracy Kecskemeti, EGLE Ms. Kathy Tetzlaff, EGLE Ms. Kathy Tetzlaff, EGLE Ms. Kimberly M. Tyson, EGLE Mr. Rich Conforti, EGLE Mr. Daniel Dailey, EGLE RCRA File Michigan's Resource Conservation and Recovery Act

United States Environmental Protection Agency Grant Application Work Plan for Fiscal Years 2022 and 2023

State of Michigan



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

June 2021

Prepared By Hazardous Waste Section Materials Management Division Michigan Department of Environment, Great Lakes, and Energy

Table of Contents

1.0 INTRODUCTION	1
1.1 Guidance Documents Used to Develop the Work Plan	1
1.2 FYs 2022 - 2023 RCRA Grant Work Year Distribution	
1.3 Challenges	3
2.0 PROGRAM ELEMENTS	3
EGLE Goal	
Strategy	
Objective	
Work Commitments	
2.2 Environmental Justice and Climate Change	
EGLE Goal	
Strategy	
Objective and Considerations	
Work Commitments	
2.3 Compliance and Enforcement	
EGLE Goal	
Strategy	
Objective and Considerations	7
Inspections	/ و
2.4 Administrative Controls	
RCRA CA Program 2030 Goals	
GPRA 2030 CA Universe	
GPRA 2030 CA Oniverse GPRA 2030 Permit Baseline	
EGLE Goal	
EGLE Goal	
Strategy Objective and Considerations	۲۲۲ ۲۵
Work Commitments	
2.5 CA	
U.S. EPA Guidance	
GPRA 2030 CA Universe	
EGLE Goal	
EGLE Goal	
Objective and Considerations	
EGLE, Remediation and Redevelopment Division's (RRD) Part 201 Amendme	
and Their Potential Impact on RCRA/Part 111 CA in Michigan	
Work Commitments	
CA Work Schedule	
2.6 Financial Assurance	
EGLE Goal	
Strategy	
Objective and Considerations	
Work Commitments	
2.7 Management and Reporting	
EGLE Goal	
Strategy	
Objective and Considerations	
Work Commitments	
WDS/RCRAInfo Reporting:	

Electronic Document Management:	19
E-Manifest_Implementation:	
Laboratory Support	
Safety Training	20
3.0 WASTE MINIMIZATION	
EGLE Goal	20
Strategy	20
Objective and Considerations	
Work Commitments	
4.0 MISCELLANEOUS ACTIVITIES	21

1.0 INTRODUCTION

This Work Plan describes work that the Michigan Department of Environment, Great Lakes, and Energy (EGLE), Materials Management Division (MMD), is committing to accomplish during Fiscal Years (FY) 2022 - 2023, based on the United States Environmental Protection Agency's (U.S. EPA) federal funding levels. This work fulfills the MMD's obligations in its role of administering the national Solid Waste Disposal Act of 1965, in Michigan, as amended by the Resource Conservation and Recovery Act of 1976, as amended (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

The Director of EGLE functions as the designated representative of the Administrator of the U.S. EPA.

This Work Plan is organized in five sections, as follows:

Introduction

This section provides an overview of the Work Plan, detailing its organization, the guidance used in its development, and challenges.

Program Elements

This section identifies the U.S. EPA's FYs 2018 - 2022 national program goals associated with each of the RCRA Work Plan Program elements and discusses EGLE's goals, strategies, objectives and considerations, and work commitments established to meet U.S. EPA goals. National Program Guidance is unavailable at the time of the drafting of this Work Plan.

Waste Minimization

This section identifies EGLE's approach to pollution prevention and sustainability.

Miscellaneous Activities

This section describes other activities that EGLE intends to perform in support of the overall program goals.

1.1 Guidance Documents Used to Develop the Work Plan

U.S. EPA guidance documents used to develop this Work Plan are:

- FYs 2018 2022 EPA Strategic Plan, February 12, 2018, U.S. EPA.
- FYs 2022 2023 National Program Guidance, Office of Land and Emergency Management: U.S. EPA is unavailable at the time of the drafting of this Workplan.
- FYs 2022 2023 National Program Guidance, Office of Enforcement and Compliance Assurance: U.S. EPA is unavailable at the time of the drafting of this Workplan.

1.2 FYs 2022 - 2023 RCRA Grant Work Year Distribution

The following table shows the distribution of full-time employee (FTE) equivalent positions in **work years**, among the various core elements of the Michigan Hazardous Waste Program (HW Program) and Work Plan objectives for FYs 2022 - 2023 that are funded by the U.S. EPA's RCRA Subtitle C State Tribal Assistance Grant (STAG) and Michigan's 25 percent match. It is important to note that the table below has been reformatted from what was reflected in historic FY Work Plans; the table now quantifies the work effort on each core element, as FTE in work years, rather than in staff FTEs, and breaks out the percentage of work that is funded by the U.S. EPA. This provides consistency and alignment with the budget narrative in our FYs 2022 - 2023 Grant Application and recognizes the overall decrease in program support from the U.S. EPA. Federal dollars to support of the state program has declined to about 35 percent, and

even including the state match, the total grant is now below 50 percent of the total program costs. The RCRA Total FTE work years of 19 does not include the work completed by EGLE's Senior Environmental Employee (SEE) Program positions, which provide critical support for site identification, biennial reporting, and work associated with vacant positions that the HW Program may not fill in FYs 2022 - 2023, given the federal budget constraints discussed in Section 1.3. It is important to note that the total number of FTE equivalent positions that EGLE will have in FYs 2022 - 2023 to run the core HW Program will likely be reduced from the FTE equivalent positions that the HW Program had in previous years, and this is reflected in the reduced level of commitment, including the achievement of the U.S. EPA's corrective action (CA) goals for the Government Performance and Results Act of 1993 (GPRA) priority sites.

RCRA Work Plan Program Element	Whole Work Years
State Authorization	1
Compliance Monitoring and Enforcement Inspections and/or Record Reviews Waste Classification Biennial Report Reviews Laboratory Support Monitoring Performance Reviews and Inspections	5.5
Administrative Controls Operating Licenses/Post-Closure Operating Licenses Closures/Post-Closure Plans Orders/Legally Enforceable Agreements Public Participation – Including Environmental Justice	1.5
CA Planning and Priority Setting (GPRA and Non-GPRA) Public Participation, including Environmental Justice Technical Reviews Oversight Enforcement Support CA Tracking	5.5
Financial Assurance	1
Management and Reporting Administrative Activities – including legislative workgroup for funding Information Management – Waste Data System (WDS)/RCRAInfo Tracking and Database Administration Training (Health and Safety and Technical) Freedom of Information Act Requests Laboratory Coordination Quality Management Plan (QMP) Health and Safety and Emergency Management Coordination Pollution Emergency Alerting System Support	4.5
RCRA Total FTE Work Years	19

1.3 Challenges

Three significant challenges are reducing EGLE's Work Plan commitments and goals on a goforward basis. These are:

- The continued and increased reduction for Michigan's allocation of the STAG. The U.S. EPA has reduced funding of Michigan's HW Program significantly since 2016. In FYs 2022 and 2023, the STAG will account for approximately 35 percent of the state's program costs. Historically, the U.S. EPA's portion of the grant accounted for 75 percent of the costs to run the program with a 25 percent match from Michigan.
- Changes in the understanding of the significance of the volatilization to indoor air pathway. Recent advances in vapor intrusion science and toxicology show that soil, groundwater, and indoor air levels for some common hazardous substances, that were previously thought to be protective of human health, are **not** protective. This has resulted in the need to conduct additional CAs at many sites to protect human health.
- The findings that perfluoroalkyl and polyfluoroalkyl substances (PFAS) are present in environmental media at a significant number of sites in Michigan and the necessity to evaluate these sites and implement immediate actions to protect public health as warranted.

2.0 PROGRAM ELEMENTS

In FYs 2022 - 2023, EGLE will use seven elements in an effective HW Program to manage hazardous waste through a delegation of RCRA authorities.

The RCRA Work Plan Program elements are as follows:

- State Authorization
- Environmental Justice
- Compliance Monitoring and Enforcement
- Administrative Controls
- · CA
- · Financial Assurance
- · Management and Reporting

This section is organized into the following components:

- The U.S. EPA FYs 2018 2022 Strategic Plan Goal and Objective associated with the HW Program element.
- The EGLE goal for the HW Program element.
- The HW Program strategy, objectives and considerations, and any work commitments for the HW Program element.

2.1 State Authorization

U.S. EPA FYs 2018 - 2022 Strategic Plan, Goal 1 – Core Mission: Deliver real results to provide Americans with clean air, land, and water, and ensure chemical safety.

Objective 1.3: *Revitalize Land and Prevent Contamination.* Provide better leadership and management to properly clean up contaminated sites and to revitalize and return the land back to communities.

U.S. EPA FYs 2018 - 2022 Strategic Plan, Goal 2 – Cooperative Federalism: Rebalance the power between Washington and the states to create tangible environmental results for the American people.

Objective 2.1: *Enhance Shared Accountability.* Improve environmental protection through shared governance and enhanced collaboration with state, tribal, local, and federal partners using the full range of compliance assurance tools.

EGLE Goal

EGLE is committed to obtaining and maintaining the legal authorities needed to administer a quality state program that is consistent with RCRA regulations, and to identifying process streamlining opportunities.

Strategy

Under federal environmental laws, the U.S. EPA and state share responsibility for protecting human health and the environment. EGLE will work with the U.S. EPA to ensure that Michigan retains authorization to administer the state program.

Objective

EGLE will continue to pursue final authorization for the 12th amendment to the state rules, for which a final express authorization revision application was submitted on March 15, 2021. Work will then begin on the 13th amendment to the rules, which will address RCRA Revision Checklists 240 to 243 and subsequent checklists, as the process allows.

Work Commitments

Event	Party	Time Frame
Send next draft rules package to the U.S. EPA	EGLE	Within 60 days of comments receipt
Send notice of public hearing to the U.S. EPA	EGLE	Before notice is given to public
Send final rules and draft express authorization revision application (EARA) to the U.S. EPA	EGLE	Within 30 days of rules effective date
Send state written comments on draft EARA to the U.S. EPA	U.S. EPA	Within 60 days of draft EARA receipt
Send written response to comments on draft EARA and submit final EARA to the U.S. EPA	EGLE	Within 60 days of comments receipt
Send state written comments on final EARA to the U.S. EPA	U.S. EPA	Within 60 days of final EARA receipt
Send written response to comments on final EARA to the U.S. EPA	EGLE	Within 60 days of comments receipt

If a work commitment will not be met, the following actions will be taken before the commitment date:

- For delays of <u>less than or equal to</u> 30 days, verbal notification will be provided by EGLE/ U.S. EPA to the U.S. EPA/EGLE regulatory specialist.
- If actions of EGLE/U.S. EPA result in delays of greater than 30 days, EGLE/U.S. EPA will
 provide a written submittal to the U.S. EPA/EGLE regulatory specialist that outlines the basis
 for the delay, and includes a revised work commitment schedule. Delays due to the
 U.S. EPA's actions do not require EGLE to submit a formal schedule extension request.

Report on Authorized State Program Revisions (RASPR)

EGLE will submit a RASPR by March 1st of each year. It will include: the <u>Federal Register</u> (FR) title, date, and citation; federal statutory basis for revision; RCRA cluster and revision checklist numbers; date by which revisions are required; date appearing on package; effective date of rules; amendment number for package relative to the base program; authorization <u>FR</u> citation and date; authorization effective date; comments; codification <u>FR</u> citation and date; and codification effective date. In cases where the only update to the RASPR would be information regarding final authorization and the final authorization is pending with the U.S. EPA, the RASPR will be submitted immediately after the final authorization is effective.

2.2 Environmental Justice and Climate Change

U.S. EPA FYs 2018 - 2022 Strategic Plan, Goal 1 – Core Mission: Deliver real results to provide Americans with clean air, land, and water, and ensure chemical safety.

Objective 1.3: *Revitalize Land and Prevent Contamination.* Provide better leadership and management to properly clean up contaminated sites and to revitalize and return the land back to communities.

U.S. EPA FYs 2018 - 2022 Strategic Plan, Goal 2 – Cooperative Federalism: Rebalance the power between Washington and the states to create tangible environmental results for the American people.

Objective 2.2: *Increase Transparency and Public Participation*. Listen to and collaborate with impacted stakeholders and provide effective platforms for public participation and meaningful engagement.

EGLE Goal

EGLE is committed to incorporating Environmental Justice (EJ) Principles into each stage of the RCRA Program and to supporting strategies to combat climate change.

Strategy

EGLE intends to continue incorporating EJ into each stage of the RCRA Program by achieving the objectives and work commitments discussed below. EGLE intends to support initiatives to combat climate change.

Objective and Considerations

EGLE recognizes that incorporating EJ into all aspects of the RCRA decision-making process is a top priority. As such, Michigan will continue to work with the U.S. EPA as it rolls out tools to incorporate EJ and climate change initiatives into the RCRA Program.

Work Commitments

The state program has expanded its public participation process to integrate EJ principles:

- An EJ evaluation step is included earlier in the permit application review process.
- Public meetings are video recorded and uploaded to YouTube.
- Licensing and CA information is posted to EGLE's website and the affected municipalities' websites (if permission is granted).
- Notifications for information availability and public meetings are provided by mailings to expanded areas surrounding the facilities and by EGLE's electronic listserv.
- Key documents are provided in non-English language per EJ screening. Follow EGLE Limited English Proficiency Plan.
- Translation services are provided to non-English speaking populations.
- Citizens are engaged earlier in the permitting process by holding meetings prior to required public hearing.

EGLE commits to continuing these efforts and making changes, as necessary, to enhance effectiveness. Additionally, staff will continue to participate in webinars and conference calls discussing new EJ tools and guidance to keep our public participation process updated with the most current advances.

In addition to the EJ focus in the RCRA Program, there are some agency-wide initiatives in progress. The Office of the Environmental Justice Public Advocate has been created to serve as an external and internal advocate and catalyst for ensuring environmental justice throughout the state. Through this office, EGLE has developed a Policy on Nondiscrimination in EGLE Programs, Grievance Procedures, and a Limited English Proficiency Plan to establish departmentwide guidance to ensure meaningful access and equitable opportunity. The RCRA Program will continue to participate in agency-wide EJ initiatives.

To promote climate change, EGLE Office of Climate and Energy coordinates Michigan efforts to achieve carbon neutrality by 2050 through development and implementation of the MI Healthy Climate Plan, as ordered in Michigan Executive Order 2020-182, and Executive Directive 2020-10. The RCRA Program will continue to support agency-wide initiatives to combat climate change.

2.3 Compliance and Enforcement

U.S. U.S. EPA FYs 2018 - 2022 Strategic Plan, Goal 3 – Rule of Law and Process: Administer the law, as Congress intended, to refocus the Agency on its statutory obligations under the law.

Objective 3.1: *Compliance with the Law.* Timely enforce environmental laws to increase compliance rates and promote cleanup of contaminated sites through the use of all of the U.S. EPA's compliance assurance tools, especially enforcement actions to address environmental violations.

Objective 3.2: *Create Consistency and Certainty.* Outline exactly what is expected of the regulatory community to ensure good stewardship and positive environmental outcomes.

EGLE Goal

EGLE's mission is to promote wise use of Michigan's air, land, and water resources, to support a sustainable environment, healthy communities, and a vibrant economy. To support that mission, the MMD's goals are to protect human health and the environment by ensuring the safe management of hazardous and nonhazardous wastes, to advance sustainable environmental outcomes, and to optimize economic and social outcomes through agency decisions and actions.

Strategy

Consistent with the mission and goals noted above, EGLE's FYs 2022 - 2023 compliance activities will include the following:

- Increasing compliance.
- Conducting the inspections required by the U.S. EPA, Office of Enforcement and Compliance Assurance (OECA), and EGLE guidelines for transportation, storage, and disposal facilities (TSDF), and generators at targeted frequencies.
- Increasing presence at small quantity generators (SQG) and very small quantity generators (VSQG) to increase compliance.
- Performing a significant number of SQG and VSQG inspections to further compliance with statutes and rules.
- Improving EGLE's compliance and enforcement program through continued attention to inspection quality, identification of violations, and tracking responses to violations. That, coupled with a broader inspection emphasis, will allow staff to provide education, outreach, and compliance assistance, including pollution prevention, waste characterization, and waste minimization information, directly to the regulated community.
- Developing metrics to measure the effectiveness of the MMD's compliance efforts.

Consistent with Part 111, Hazardous Waste Management, of the NREPA, the OECA, and EGLE guidelines, the targeted inspection frequencies will be as follows:

Inspection Type	Targeted Frequency*
Active operating TSDFs	Annually at a minimum
Closed TSDFs	Every three years
Large Quantity Generators (LQG)	10 percent annually based upon Biennial Reporting System Numbers (57 Inspections)

*Targeted frequency may be adjusted to account for U.S. EPA funding levels, prioritization, and initiatives implemented to achieve the overall EGLE goals and strategies.

Objective and Considerations

EGLE HW Program Objectives include:

Reducing the generation of hazardous waste:

- Increasing compliance by providing compliance assistance to the regulated community through regular inspections and numerous outreach efforts.
- Encouraging the regulated community to voluntarily discover, disclose, and correct violations before they are identified by regulatory agencies.
- Identifying and ensuring correction of violations in a timely manner to protect human health and the environment, foster HW Program integrity, and deter future noncompliance.

The following factors will be considered as EGLE strives to meet our objectives: Inspection planning and priority setting:

- EGLE inspection/records review process; the tools (e.g., inspection checklists) and techniques (e.g., sampling) used as part of the inspection; the accuracy and completeness of inspections and follow up; U.S. EPA communications; and compliance assistance.
- EGLE enforcement activities as indicated by the nature, timeliness, and appropriateness of enforcement actions; the degree of support afforded other enforcement officials; the nature

of follow up to enforcement actions; and the effectiveness of enforcement communications with the U.S. EPA.

Staffing levels and funding will impact EGLE's ability to maximize inspections. Decisions about which facilities to inspect will be based on target frequencies, complaints, risk criteria, initiatives, and management factors, as outlined in each respective district's neutral inspection criteria plan. The proposed inspection activity is predicated on an effort of approximately 5.5 FTE in work years.

Inspections

EGLE will continue to focus inspections on:

- **TSDFs**: EGLE continues to implement strategies that maximize resources and focus work effort in areas that maximize protection of the environment and public health. It is EGLE's goal to inspect active TSDFs one time per year. Inspections will include at least one district Compliance and Enforcement Inspection (CEI). EGLE will also conduct other inspections, such as a Groundwater Monitoring Evaluation (GME)/ Operation and Maintenance (O&M), Post-Closure Cap (PC Cap), CA Cover/Cap, CA Maintenance and Monitoring (CAMM), or CA Compliance Inspection. The inspection schedules for FYs 2022 2023 are provided below.
 - GME/O&M Inspection Work: To ensure that land disposal facility owners/operators comply with applicable groundwater monitoring requirements, Hazardous Waste Section (HWS) staff will conduct GME/O&M inspections.
 - **PC Cap Inspection Work:** To ensure that TSDF owners/operators comply with postclosure requirements to maintain the final cover on closed/capped units pursuant to the approved design specifications, HWS staff will conduct PC Cap Inspections.
 - **CA Cover/Cap Inspection Work:** To ensure that TSDF owners/operators comply with CA requirements to maintain the final cover on closed/capped CA units, pursuant to the approved design specifications, HWS staff will conduct CA Cap Inspections.
 - **CAMM Inspection Work:** To ensure that approved institutional and engineering controls are being properly operated, maintained, and transferred (if property transactions occur) at facilities that have a CA550 with controls EI, the HWS conducts CAMM inspections. With the continued GPRA progress on CAs "completed with controls," EGLE has identified the critical need to conduct these inspections to ensure the long-term effectiveness of the CA. Given that the universe of CAs "completed with controls" is continually expanding, it must be emphasized that the number of CAMM inspections to be conducted each year is increasing, with this work now becoming a significant part of the HWS's workload. EGLE has established a goal to inspect each facility that is part of the CAMM universe on a once every three-year frequency. It has been determined that this frequency is necessary if the HWS intends to identify issues of concern and correct problems before the remedy is compromised and/or human health and/or the environment suffers an impact. To ensure that EGLE maintains a complete list of facilities that are subject to these inspections, a definitive method has been devised to do an annual screening, so that the CAMM universe list is periodically updated and new facilities that need CAMMs are identified. HWS staff will conduct CAMM inspections.

Inspection Schedule FY 2022

Inspection Type	Number of Inspections
Active operating TSDF CEI	15
O&M	7
PC Cap	4
CA Cover/Cap	3
САММ	7

Inspection Schedule FY 2023

Inspection Type	Number of Inspections
Active TSDF CEI	15
O&M	8
PC Cap	4
CA Cover/Cap	2
САММ	7

- Generators: EGLE will conduct annual inspections at 57 of Michigan's LQGs. This is a deviation from the requirement to inspect at least 20 percent of our LQG universe, as required under the U.S. EPA Office of Enforcement and Compliance Assurance, RCRA Compliance Monitoring Strategy. Michigan proposes to follow an alternative approach to the standard requirement by following Alternative 3 – The Straight Trade-off Approach. Our proposed plan is discussed below.
 - Description of the State's Known Universe Based on Michigan's 2019 Biennial Report (BR), Michigan has 566 LQGs. Based on data from WDS, Michigan currently has 1894 SQGs and 21,581 VSQGs.
 - Baseline Based on Michigan's 2019 BR, Michigan would have to conduct 113 inspections to meet the standard approach of inspecting 20 percent of the LQG universe in 2022 and 2023.
 - 3. Problem Statement Michigan is confident that waste streams at its LQGs have been identified and are properly managed. These facilities have more mature waste management programs and as such, we see less violations and better compliance rates than we do at SQGs and VSQGs. Michigan seeks flexibility to focus its resources at facilities that pose greater risks.
 - Planned Mix of Inspections Michigan proposes to inspect 10 percent of its LQG universe, 57 inspections, based on the BR universe. Michigan commits to inspect an additional 113 SQG, VSQG, and/or other inspections in FY 2022 and FY 2023.
 - Expected Outcomes Under this alternative approach, Michigan expects to identify facilities where waste mismanagement occurs and expects that the quantity identified as being handled improperly far exceed the amount of waste improperly handled by any LQGs identified with violations. Michigan will also end up with a more complete generator universe.

- 6. Mix of Tools Michigan's alternative approach for inspections, used in conjunction with educating the regulated community during inspections, various workshops and webinars, guidance documents, and compliance information on EGLE's web sites, will help maximize compliance rates and minimize environmental risks.
- 7. Measurement Plan Michigan will document the amount of waste the SQGs, VSQGs, and other facilities generates, the amount of waste identified as not being handled properly at the time of an inspection but corrected at the time of inspection, the amount corrected as a result of follow up enforcement actions, the amount that will now be managed properly because of the implementation of environmental management practices that ensure compliance, the amount not properly identified as hazardous waste that will now be handled properly, etc. Michigan will report outcomes to the U.S. EPA, Region 5 through WDS, which is translated to RCRAInfo.

Compliance Assistance

EGLE will continue to provide compliance assistance to the regulated community through several means, including:

- Educating the regulated community during inspections and through inquiries to help them achieve compliance (i.e., providing written material on common compliance requirements, such as secondary containment, manifest tracking, and universal waste).
- Educating the regulated community on various hazardous waste topics through workshops and webinars.
- Placing guidance documents and compliance information on the EGLE Web site.
- Educating members of the regulated community in the use of the EGLE Web site and informational systems.

HW Program Improvements

EGLE is working to accomplish the following HW Program improvements:

- Developing innovative approaches to enhance our ability to conduct field assessments, inspections, and CA oversight at RCRA facilities.
- Developing compliance rate metrics.
- Developing more understandable compliance communications.
- Acknowledging in-compliance status.
- Performing SQG introductory inspections.
- · Defining Solid Waste rule implementation.
- Expanding public participation and involvement.
- Using existing tools, such as the Biennial Report, and new tools, such as e-Manifest implementation, to identify and improve compliance in problem areas.

EGLE will continue to review, and where identified, improve the overall management and operation of the compliance and enforcement portion of the HW Program, to assist with meeting overall HW Program goals.

Other Reviews and Program Support

- Annual Groundwater Report and Non-Financial Record Reviews: During FYs 2022 2023, the HWS will continue to review annual groundwater reports from the facilities where submittals are required and non-financial records, including data packages and letters responding to EGLE required submittals, to the maximum amount possible.
- Waste Delisting Reviews: During FYs 2022 2023, upon receipt of a request to redesignate a waste otherwise identified as a hazardous waste, the HWS intends to process the request and issue an approvability determination. In addition, the HWS will review the records and conduct inspections at facilities, with active redesignation approvals, to audit compliance with the redesignation conditions and verification sampling for ongoing waste characterization.
- Waste Characterization Reviews and Variance Requests: During FYs 2022 2023, the HWS will complete waste characterization and hazardous secondary materials reviews and expeditiously process variance requests as they arrive for EGLE review.

• EGLE, Radiological Protection Section (RPS), HW Program Support:

The RPS oversees the disposal and processing of naturally occurring radioactive material, and other radioactive material exempt from United States Nuclear Regulatory Commission regulation. The HW Program receives requests from Wayne Disposal, Inc., U.S. Ecology Detroit North, and Michigan Disposal Waste Treatment Plant to dispose or process those materials. In FYs 2022 - 2023, the RPS intends to provide support to the HW Program by reviewing such requests and issuing approvals or denials.

• EGLE, Law Enforcement Division, Environmental Investigation Section, HW Program Support:

The Law Enforcement Division, Environmental Investigation Section, will continue to provide support to the HW Program by providing transport vehicle patrols, investigative services to detect criminal violations of hazardous waste law, and case preparation for prosecution by local, state, or federal officials.

2.4 Administrative Controls

U.S. EPA FYs 2018 - 2022 Strategic Plan, Goal 1 – Core Mission: Deliver real results to provide Americans with clean air, land, and water, and ensure chemical safety.

Objective 1.2: *Provide for Clean and Safe Water.* Ensure waters are clean through improved water infrastructure, and in partnership with states and tribes, sustainably manage programs to support drinking water, aquatic ecosystems, and recreational, economic, and subsistence activities.

Objective 1.3: *Revitalize Land and Prevent Contamination*. Provide better leadership and management to properly clean up contaminated sites to revitalize and return the land back to communities.

U.S. EPA FYs 2018 - 2022 Strategic Plan, Goal 3 – Rule of Law and Process: Administer the law, as Congress intended, to refocus the Agency on its statutory obligations under the law.

Objective 3.4: *Streamline and Modernize.* Issue permits more quickly and modernize our permitting and reporting systems.

RCRA CA Program 2030 Goals

In September 2020, the U.S. EPA developed new 2030 Vision, Mission, and Goals for RCRA CA Program. The U.S. EPA included 4 additional facilities to EGLE GPRA Universe to conduct effective and efficient cleanups to protect human health and the environment, support continued

use, and make land ready for reuse, including if necessary, placement of controls to protect communities into the future. With the additions, EGLE has 123 facilities in its GPRA Universe.

GPRA 2030 CA Universe

Michigan GPRA CA Universe consist of 123 facilities; EGLE is the lead regulatory agency for CA at 88 of the facilities. EGLE continues to coordinate with the U.S. EPA on an ongoing basis to determine the most appropriate lead agency for the facilities in the GPRA CA Universe. If agreement is reached with the U.S. EPA to change the lead for a facility, the universe will be revised accordingly.

GPRA 2030 Permit Baseline

Michigan GPRA Permit Universe consist of 61 facilities. The cleanup of some of the facilities in the GPRA CA Universe is governed through enforceable administrative controls (i.e., issuance/renewal of an operating license/post-closure operating license, certification of clean closure, approval of a post-closure plan equivalent to a post-closure operating license, or entry into a consent order/legally enforceable agreement). Of the 123 Michigan facilities in the GPRA CA Universe, the U.S. EPA has identified 61 facilities that are subject to enforceable administrative controls. This subset of the GPRA 2030 CA Universe is referred to as the GPRA 2030 Permit Baseline.

EGLE Goal

In FYs 2022 - 2023, EGLE intends to apply available resources at a pace to issue or update and maintain administrative controls at 100 percent of the 61 facilities in the GPRA 2030 Permit Baseline. This goal is dependent upon and may be impacted by reduced the U.S. EPA funding levels, resource availability, and the competing priority of managing near-term human health risks from PFAS and VI.

Strategy

EGLE intends to process new or expansion applications, to issue/renew operating/post-closure licenses, to clean close regulated units, to approve post-closure plans, to process license modifications, or to enter into CA consent orders or legally enforceable agreements at a pace that will ensure that these administrative controls are maintained for 100 percent of the 61 facilities in the GPRA 2030 Permit Baseline.

Objective and Considerations

In FYs 2022 - 2023, EGLE intends to issue/renew operating/post-closure licenses, to process license modifications, to clean close regulated units, to approve post-closure plans, or to enter into CA consent orders/legally enforceable agreements such that the GPRA "approved controls in place" goals are achieved for 100 percent of the GPRA 2030 Permit Baseline.

EGLE will apply resources and allocate work between the U.S. EPA and other divisions, as necessary, to attempt to achieve the "controls in place" goals. This effort will involve approximately 1.5 FTE in work years. Successful implementation would allow EGLE to meet the FY 2030 national goal for "approved controls in place" at Michigan's GPRA 2030 Permit Baseline facilities and lends support to the U.S. EPA for the permitting goals outlined in their FYs 2018 - 2022 Strategic Plan.

Work Commitments

Waste Analysis Plan Initiative

To improve the quality and consistency of the Waste Analysis Plans (WAP) in our permits and to streamline the permitting process, the HWS initiated a focused WAP review process for three

facilities that are in the process of relicensing. The outcome of this process should greatly facilitate license reissuance and result in high quality and consistent WAPs across facilities in Michigan.

EGLE will continue necessary application review and public participation for relicensing at:

- University of Michigan Beck Road (MIR 000 001 834)
- Republic Services Industrial (MIR 000 016 055)
- Wayne Disposal, Inc (MID 048 090 633)
- Dow Silicones Corporation/Dow Chemical (MID 000 809 632)
- Pharmacia & Upjohn Company (MID 000 820 381)
- Drug & Laboratory Disposal, Inc. (MID 092 947 928)
- PSC Environmental Services (Petro-Chem) (MID 980 615 298)
- Granger Grand River Landfill (MID 082 771 700)
- US Ecology Detroit South (MID 980 991 566)
- Michigan Disposal Waste Treatment Plant (MID 000 724 831)
- Ford River Raisin Warehouse (MID 005 057 005)
- Dow Salzburg Landfill (MID 980 617 435)

2.5 CA

The U.S. EPA FYs 2018 - 2022 Strategic Plan, Goal 1 – Core Mission: Deliver real results to provide Americans with clean air, land, and water, and ensure chemical safety.

Objective 1.3: *Revitalize Land and Prevent Contamination.* Provide better leadership and management to properly clean up contaminated sites and to revitalize and return the land back to communities.

In September 2020, the U.S. EPA developed new 2030 Vision, Mission, and Goals for the RCRA CA Program. The U.S. EPA included 4 additional facilities to EGLE GPRA Baseline facilities to conduct effective and efficient cleanups to protect human health and the environment, support continued use, and make land ready for reuse including, if necessary, placement of controls to protect communities into the future. Michigan made significant progress in achieving its 2020 goals and will continue to achieve environmental indicators (EI) for facilities in GPRA baseline.

U.S. EPA Guidance

Els

The RCRA CA Program tracks EIs as the means by which environmental results are measured.

The U.S. EPA National Program Guidance, Draft – April 1, 2019, Section IV, FY 2020 National Program Guidance Measures, identifies the following FY 2020 national targets for RCRA CA EIs:

CA EI	Measures	FY 2020 National Target
Human Exposures Under Control (CA725)	CA1	Human exposures to toxins under control at 41 facilities.
Groundwater Migration Under Control (CA750)	CA2	Migration of contaminated groundwater under control at 61 facilities.
Remedy Construction (CA550) *	CA5RC	Final remedies constructed at 98 facilities.

CA Performance Standards Attained (CA900 or CA999)	CA6	CA performance standards attained at 59 facilities.
Ready for Anticipated Use (RAU)	RSRAU	107 RCRA CA facilities made Ready for Anticipated Use.

The first two RCRA CA EIs are a means of evaluating and reporting on the acceptability of current site conditions (i.e., they are interim milestones and not final remedy or site closure milestones), and they are defined as follows:

- The Current Human Exposures Under Control (CA725) El is an assessment of actual current human risks and would typically take the form of a qualitative assessment of the completeness of exposure pathways, but as necessary may include a traditional quantitative risk assessment.
- The Groundwater Migration Under Control (CA750) EI is strictly a resource protection measure and not a direct measure of human risk. It may include the assessment of impacts of groundwater discharges to surface waters and surface water ecosystems.

These Els provide an opportunity for facilities and regulators to show meaningful progress that is achievable in the near future. The Els focus on results (i.e., changes in the quality of the environment) and de-emphasize the CA process. The Els reflect "current" conditions (i.e., known or expected at the time of the determination), are site-wide determinations, and should reflect all contaminants of concern present above risk-based levels of concern. The Els cannot be achieved until all aspects of the facility subject to RCRA CA are considered.

The third RCRA CA EI, Remedy Construction (CA550NR, CA550RC, or CA550OF), is a significant milestone to the U.S. EPA because it measures the progress of remedy implementation at GPRA 2020 CA facilities.

The fourth RCRA CA EI, CA Performance Standards Attained (CA900CR, CA900NC, CA999NF, or CA999RM), has become a significant milestone to the U.S. EPA because it measures achievement of performance standards.

The fifth RCRA CA EI, Ready for Anticipated Use (CA800YE), is a U.S. EPA long-term goal as identified on Page 14 in the U.S. EPA FYs 2018 - 2022 Strategic Plan, February 12, 2018. This event code applies when the facility or facility area has met the Human Exposures EI (CA725YE); cleanup goals have been achieved for media that may affect current and reasonably anticipated future land uses of the facility, so there are no unacceptable risks; and all institutional or other controls, identified as part of a response action or remedy as required to help ensure long-term protection, are in place.

GPRA 2030 CA Universe

Refer to the GPRA 2030 CA Universe discussion, in the Administrative Controls Section of this Work Plan, for details regarding the sites that are in this universe.

EGLE Goal

Based on the FY 2022 federal funding, EGLE intends to achieve the following milestones for EGLE-lead GPRA CA Universe sites:

- Human exposures controlled (CA725) at 2 additional facilities in FY 2022.
- Contaminated groundwater controlled (CA750) at 2 additional facilities in FY 2022.

- Complete construction of final remedies (CA550) at 2 additional facilities in FY 2022.
- Achieve performance standards attained (CA900/999) at 2 additional facilities in FY 2022.
- EGLE commits to achieving as many Ready for Anticipated Use (CA800) determinations as time and resources allow. Staff will determine if a GPRA facility meets the U.S. EPA's definition of RAU, and if it does, they will complete the U.S. EPA's RAU form and coordinate with the U.S. EPA to ensure that the achievement is entered in RCRAInfo. EGLE will provide periodic updates to the U.S. EPA on RAU progress.

While EGLE continues to work toward accomplishing EI milestones at our GPRA facilities, it is important for the U.S. EPA to recognize the increased work associated with facilities that achieve CA 550s with controls. Constant monitoring is needed to assure the adequacy of the implemented control(s) and that essential and timely adjustments if/when they become necessary. As EGLE achieves larger CA550 percentages for our GPRA facilities, the amount of time that must be devoted to oversight will increase and this area of CA will become a significant work element.

Strategy

EGLE will apply available funding and resources and allocate work between the U.S. EPA and other EGLE divisions to meet EGLE's FYs 2022 - 2023 CA goals.

Objective and Considerations

EGLE will implement the above-described strategy to conduct CA at the GPRA CA Universe facilities for which EGLE is the lead regulatory agency and to assist the U.S. EPA, as resources allow, achieve their FYs 2022 - 2023 national CA milestones. It is anticipated that approximately 5.5 FTE in work years will be devoted to this effort. Any FTE equivalent positions that are vacated and not filled in FYs 2022 - 2023 will affect EGLE's ability to meet our GPRA goals.

EGLE, Remediation and Redevelopment Division's (RRD) Part 201 Amendments and Their Potential Impact on RCRA/Part 111 CA in Michigan

In 2000, the U.S. EPA and EGLE entered into a memorandum of understanding (MOU) to aid in the implementation of RCRA CA requirements at Michigan facilities. The MOU recognize the use of the Part 201 cleanup criteria and associated processes for Part 111 CA to fulfill the RCRA CA obligations in Michigan. In 2002, the U.S. EPA and EGLE developed an addendum to the MOU that provided additional detail related to substantive technical requirements. Because Part 201 has undergone several statutory changes since the U.S. EPA and EGLE entered into the MOU and the technical addendum, the agencies have agreed that an update to the MOU is needed.

During FYs 2022 - 2023, the HWS expects to continue working with the U.S. EPA to amend the current MOU.

EGLE has made a commitment to the U.S. EPA to develop a compliance assistance document that will lay out what provisions of Part 201 apply to Part 111 CA. The U.S. EPA has already provided direction on the Michigan Occupational Safety and Health Administration (MIOSHA) provisions found in §324.20120a(18).

Work Commitments

Mixing Zone Authorizations/Reauthorizations

As a tool to help achieve EI goals at Michigan's GPRA facilities, EGLE is committed to completing mixing zone authorization/reauthorization determinations, as needed, for facilities

where contaminated groundwater is venting to surface water at concentrations exceeding applicable Part 201 groundwater/surface water interface criteria.

Coordinated Polychlorinated Biphenyl (PCB) Cleanups

To facilitate PCB clean-ups and eliminate duplication of efforts when PCB remediation is needed at RCRA CA sites, EGLE and the U.S. EPA have been working cooperatively for coordinating approvals, pursuant to Title 40 of the Code of Federal Regulations, Part 261.77, Toxic Substance Control Act (TSCA), coordinated approval, although a formal memorandum of agreement or understanding is not in place. Additional projects with coordination of TSCA PCB remediation work are expected during FYs 2022 - 2023. EGLE and the U.S. EPA will continue to work on coordinated approvals using Part 111 and Part 201 authorities. Once EGLE has promulgated updated cleanup criteria for PCBs, the agency intends to draft a memorandum agreement or understanding for TSCA coordinated approvals for the U.S. EPA review and approval.

CA Work Schedule

The CA FYs 2022 - 2023 HWS Work Schedule is attached at the end of this document.

2.6 Financial Assurance

U.S. EPA FYs 2018 - 2022 Strategic Plan, Goal 1 – Core Mission: Deliver real results to provide Americans with clean air, land, and water, and ensure chemical safety.

Objective 1.3: *Revitalize Land and Prevent Contamination.* Provide better leadership and management to properly clean up contaminated sites and to revitalize and return the land back to communities.

EGLE Goal

EGLE is committed to ensuring that all owners and operators of TSDFs obtain and maintain sufficient financial assurance to pay for cleanup of accidental releases of hazardous waste constituents during the life of facility operation and to pay for cleanup, closure, and post-closure care, in case the responsible party defaults on these regulatory obligations. EGLE has 1 FTE in work years devoted to financial assurance.

Strategy

EGLE intends to complete financial record reviews in accordance with the objectives and considerations identified below.

Objective and Considerations

In FYs 2022 - 2023, EGLE intends to review budgets and expenditures under the settlement and trust agreements for the RACER Trust and for the CorePointe Group (formerly Chrysler Insurance Company), in follow up to the bankruptcies filed in FY 2011. Significant work will be required to review budget proposals and track expenditures, in addition to Work Plan review and implementation oversight.

Work Commitments

In FYs 2022 - 2023, EGLE will complete a financial record review for all 54 facilities that maintain financial assurance in Michigan and enter data into WDS to demonstrate that the review has been completed. To reflect this in WDS, EGLE will record an "in-compliance" financial record review (except when it does not apply) for the active TSDFs in the Compliance and Enforcement Module in WDS. Because of this proactive approach, essentially all Michigan TSDFs will be incompliance with the financial capability requirements at any given time.

2.7 Management and Reporting

U.S. EPA FYs 2018 - 2022 Strategic Plan, Goal 1 – Core Mission: Deliver real results to provide Americans with clean air, land, and water, and ensure chemical safety.

Objective 1.3: *Revitalize Land and Prevent Contamination.* Provide better leadership and management to properly clean up contaminated sites and to revitalize and return the land back to communities.

EGLE Goal

EGLE's goal is to support waste minimization and resource conservation activities and to ensure that hazardous wastes are managed in a manner that protects human health and the environment and accomplishments are entered into state and federal databases in a timely manner to track U.S. EPA milestone progress. EGLE anticipates that approximately 4.5 FTE in work years will be devoted to this effort.

Strategy

EGLE intends to manage the RCRA Program in a manner that encourages resource conservation and recycling while ensuring human health and environmental protection. EGLE also intends to enter the information, that is needed to reflect Michigan's performance measures toward meeting the applicable U.S. EPA GPRA goals, into the appropriate state and federal databases and to do so in a timely manner.

Objective and Considerations

EGLE will manage the RCRA Program to meet its overall purposes efficiently and effectively despite diminishing resources and funding constraints. However, any vacancies that may exist or occur during FYs 2022 - 2023 may affect the performance of this objective.

The following factors will be a consideration as EGLE strives to meet their objective:

- Accuracy and adequacy of the RCRA Program description contained in the Work Plan.
- · Timeliness and accuracy of reports and other information submitted to the U.S. EPA.
- Effect of internal procedures to identify, track, and complete tasks necessary to fulfill the Work Plan.
- Effect of EGLE's administrative records to support compliance and enforcement monitoring permitting and closure, CA activities, and state authorization.
- Effectiveness of communications with the U.S. EPA relating to management and reporting issues.
- Quality of the staff training program.
- Quality of laboratory support.
- Quality of EGLE's responses to requests for information by the public.

Work Commitments

Baseline Oversight Reporting

EGLE will follow the baseline oversight reporting frequencies identified in the following table:

Reports/Reporting	Frequency
WDS/RCRAInfo (Handler/CME/Permitting/CA)	Monthly
Financial Reporting	Annually at year end
Report of Staff Vacancies	Annually at year end
RASPR	Annually by March 1

Troining	Appually at year and
Training	Annually at year end
Waste Minimization	Annually at year end
Conference Calls	
Compliance/Enforcement	Quarterly or as negotiated
Permitting	Quarterly or as negotiated
CA	Quarterly or as negotiated
Authorization	Quarterly or as negotiated
Financial Assurance	Quarterly or as negotiated
WDS	Quarterly or as negotiated
File Audits	
Compliance/Enforcement	Annually
Permitting	Annually
CA	Annually
Meetings (on-site, video conference, and/or conference call)	Annually or as negotiated
Status Reports	Mid-year and year end
Capability Assessment	Informal, in conjunction with authorization packages

Database Management, Records Management, and Reporting

WDS/RCRAInfo Reporting:

Michigan data for the RCRA Program is entered into WDS and translated to the RCRAInfo for Handler, Permitting, CA, Compliance and Enforcement, and Hazardous Waste BR. Work on translating financial assurance data into RCRAInfo began in FY 2015 and it is expected to be completed in late FY 2021. Direct entry of financial assurance data into RCRAInfo to address the U.S. EPA data quality of financial assurance data in RCRAInfo was implemented in July 2016 and it will continue until such time as the data can be translated directly into RCRAInfo. Any disruptions in translation or data comparison reports will be communicated to the U.S. EPA, Region 5.

- Compliance Monitoring and Enforcement Module: EGLE commits to maintaining WDS to reflect current compliance, monitoring, and enforcement activities in Michigan. This data will continue to be translated into RCRAInfo, on a monthly schedule, through the Exchange Network by submitting XML files.
- Handler Module: U.S. EPA Site ID numbers will continue to be issued through WDS, and the numbers will conform to the required check-digit algorithm. This data will continue to be translated into RCRAInfo, on a monthly schedule, through the Exchange Network by submitting XML files.
- Permit Module: EGLE commits to maintaining WDS to reflect current permitting, closure, and post-closure activities in Michigan, including facilities listed by the U.S. EPA as high priority under the federal GPRA. This data will continue to be translated into RCRAInfo, on a monthly schedule, through the Exchange Network by submitting XML files.
- CA Module: EGLE commits to maintaining WDS to reflect CA activities in Michigan, including facilities listed by the U.S. EPA as high priority under the federal GPRA. This data will continue to be translated into RCRAInfo, on a monthly schedule, through the Exchange Network by submitting XML files.

Electronic Document Management:

EGLE is in the process of transitioning to the use of an electronic document management system for the storage and retrieval of documents to include: permits, licenses, correspondences, compliance documentation, inspection records, and etc., in lieu of hard copies. Meanwhile, EGLE will maintain hardcopies until transition is complete and fully functioning.

E-Manifest_Implementation:

Each U.S. EPA Region previously assigned a point-of-contact to work with both the e-Manifest team and states on a number of technical, policy, and outreach efforts and activities to be completed prior to system deployment in June 2018. The e-Manifest system launched on June 30, 2018. Michigan continues to actively participate in National Data Calls, Region 5 specific calls and discussions, and e-Manifest listservs and developer calls, as available and appropriate. Michigan continues to work with the regulated community to assist industry users in obtaining appropriate site permissions in RCRAInfo as well as utilizing the e-Manifest system.

Laboratory Support

Estimates for laboratory support needs for FYs 2022 - 2023 are based on data generated by EGLE's Environmental Laboratory and private sector contract laboratories for past analytical services. Costs are divided into two categories to differentiate between samples collected during: (1) RCRA groundwater inspections (i.e., GMEs, O&Ms, and groundwater assessments) and (2) samples resulting from RCRA compliance and/or CA investigations. Although projected laboratory costs are chiefly for mandatory RCRA inspections, allowance has been included for additional sampling visits in oversight support of RCRA closures, waste classification audits, and RCRA facility assessments. Estimates for laboratory support needs also include the time involved for special support of laboratory expertise regarding specific laboratory technology, methodology, and review of specified portions of Quality Assurance Project Plans.

All samples collected during sampling and compliance inspections will be analyzed in EGLE's Environmental Laboratory, unless the required specialized analytical capability is not available through EGLE's Environmental Laboratory (i.e., high resolution mass spectrography). Samples will be sent to laboratories that participate in the RRD's Contract Laboratory Program, for any needed analyses not routinely conducted by EGLE's Environmental Laboratory. All analyses conducted by EGLE will be performed in accordance with standard procedures contained in the 2016 (Revision 6) quality assurance manual entitled Material's Management Division Quality Assurance and Quality Control Manual for the Sampling and Analysis of Environmental Media. A copy of this manual was originally provided to the U.S. EPA following its completion (with the assistance of the U.S. EPA contractor) in February 1998, and it was officially approved by the U.S. EPA, Region 5, on December 16, 1998. Major updating was completed during FY 2001 (Revision 2). A second major update was completed in FY 2006 (Revision 3). Revision 4 was completed in FY 2009. Revision 5 was completed in FY 2013. Revision 6 was completed on August 31, 2016. Revision 7 is currently undergoing management review and is expected to be transmitted to the U.S. EPA, Region 5 in the second half of FY 2021. Since this manual is lengthy and the procedures it contains do not frequently change, EGLE will review this document on a biennial basis and perform minor revisions, as needed. EGLE will submit a fully updated copy of the manual to the U.S. EPA every five years (from the date of official U.S. EPA approval), unless substantial changes necessitate a release sooner. In addition to this EGLE reference manual, the U.S. EPA SW-846 Third Edition, Update VII, with revisions, will be used.

Safety Training

The MMD has developed a Health and Safety Program to ensure any staff, that performs duties at facilities where they may be exposed to hazardous chemicals, conducts tasks in the safest manner possible. The MMD Health and Safety Program is designed to comply with MIOSHA standards that includes the Michigan Hazardous Waste Operations and Emergency Response (HAZWOPER) regulations and all applicable EGLE health and safety policies. EGLE commits to meeting federal and state safety requirements.

- All MMD staff that sample and/or inspect facilities, where hazardous chemicals may be present, must complete at least 24 hours of safety training designed to teach chemical awareness and toxicology and to familiarize them with personal protective equipment that may be required to perform tasks. The majority of staff in these positions are required, based on their position descriptions, to take 40 hours of safety training. All staff who have taken this training are required to complete an additional eight hours of safety training, annually, to update their safety skills and to maintain their HAZWOPER certifications. Staff whose work duties require them to wear a respirator must complete an annual 4-hour respiratory protection refresher training, which includes a fit test, and they must be able to demonstrate that they understand and can apply the information learned. All MMD staff that perform field work in a location remote from a medical facility must take Cardiopulmonary Resuscitation, First Aid, and Automated External Defibrillator training and maintain their certifications so that they can provide lifesaving skills if an emergency arises.
 - All District and HW Program staff persons that may be called upon to participate in an emergency incident involving hazardous chemicals are required to be trained in the National Incident Management System (NIMS) structure for incident response. To meet this requirement, staff must satisfactorily complete the following NIMS online training courses, available through the Federal Emergency Management Agency Emergency Management Institute and refresh these trainings on a three-year cycle: Introduction to Incident Command System (IS-100), Basic Incident Command System for Initial Response (IS-200), fundamentals of Emergency Management (IS-230), and An Introduction to the Incident Command System (IS-700), and National Response Framework, An Introduction (IS-800).

3.0 WASTE MINIMIZATION

U.S. EPA FYs 2018 - 2022 Strategic Plan, Goal 1 – Core Mission: Deliver real results to provide Americans with clean air, land, and water, and ensure chemical safety.

Objective 1.3: *Revitalize Land and Prevent Contamination.* Provide better leadership and management to properly clean up contaminated sites and to revitalize and return the land back to communities.

EGLE Goal

Promote pollution prevention (P2) and the adoption of other sustainable practices throughout all aspects of the RCRA Program.

Strategy

P2 is central to all U.S. EPA sustainability strategies, and the U.S. EPA will continue to incorporate these principles into its policies, regulations, and actions. P2, a long-standing priority for the U.S. EPA, encourages companies, communities, governmental organizations, and individuals to prevent pollution and waste by implementing conservation techniques, promoting efficient reuse of materials, making production processes more sustainable, and

promoting the use of safety substances. EGLE is committed to collaborating with the U.S. EPA to review P2 results and identify enhanced P2 strategies.

Objective and Considerations

EGLE intends to meet our goal to promote P2 to the maximum extent possible.

The following considerations will impact our ability to provide this assistance:

- · Limited funding and staff resources.
- · The availability of EGLE, MMD Sustainable Development Unit staff.
- Communication with the U.S. EPA on P2 results and enhanced P2 strategies.

Work Commitments

During FYs 2022 - 2023, EGLE will continue to promote activities to reduce hazardous waste generation and collaborate with the U.S. EPA on P2 strategies.

4.0 MISCELLANEOUS ACTIVITIES

SEE Program

EGLE is seeking U.S. EPA In-Kind Funding for the critical three SEE FTEs to support Michigan's HW Program. The employees will continue to work in the following areas: (1) handler information and user charges; (2) Site ID and data collection; (3) RCRAInfo data collection, verification, entry, reporting, and research; (4) biennial reporting; and (5) district inspections.

Remediation Advisory Team (RAT) and Technical and Program Support (TAPS) Teams During FYs 2022 - 2023, HWS staff will continue to coordinate and participate on the RAT to review remediation proposals, develop guidance to aid staff in reviewing remedial investigations and remediation reports, and provide opinions on technical issues related to remediation activities. The RAT is also available to the U.S. EPA project managers; the RAT chairperson sends monthly reminders to the U.S. EPA staff to announce upcoming meetings and ask for agenda items. In addition, assigned HWS staff will continue to participate on the RRD's TAPS teams to keep apprised of Part 201 guidance and to maintain as much consistency between Parts 111 and 201 as possible and allowed by RCRA.

EGLE QMP

The QMP is a document mandated by the U.S. EPA for all entities that receive federal funds and collect and/or review environmental data. The QMP outlines all the significant processes in an organization and documents the steps taken to ensure quality in those processes (including organizational policies, standard operating procedures, the process to ensure that competent staff are hired and remain qualified, etc.). As a recipient of federal funds, EGLE has an approved QMP for the agency. The most recent update of the QMP, dated January 19, 2018, was approved by the U.S. EPA on February 28, 2018. The approval of this QMP will be valid for up to five years through February 28, 2023.

The QMP outlines specific steps EGLE takes to ensure quality in the collection, analysis, and review of environmental data. Specific portions of the QMP relating to MMD programs include the *MMD Quality Assurance/Quality Control Manual for the Sampling and Analysis of Environmental Media*, and EGLE Policy 09-020, *Policy on Quality Assurance Project Plans*. MMD staff use these and other components of the QMP to ensure that environmental data collected by staff, or by the regulated community, are suitable for their intended uses. The most recent update and revision of the *MMD Quality Assurance/Quality Control (QA/QC) Manual for*

the Sampling and Analysis of Environmental Media was completed in FY 2016, and a copy was distributed to all MMD field staff on September 9, 2016. Staff are currently drafting Standard Operating Procedures for PFAS compounds that will be appended to the 2016 QA/QC Manual in the near future, and MMD has set a goal by 2021 to incorporate it into the revision of the QA/QC Manual.

The MMD adheres to EGLE's QMP portions that describe the process of hiring staff. The Michigan Department of Civil Service (MDCS) establishes job classifications and eligibility requirements for all positions in state government. Prior to hiring, individual position descriptions are reviewed and approved by EGLE, Office of Human Resources, and the MDCS, to ensure that the education and experience requirements meet the job classifications. Once hired, the manager or supervisor ensures that staff follows the training plan for their position. To ensure that EGLE employees maintain adequate qualifications to perform their job duties, tenured staff undergoes performance evaluations annually, and new staff undergoes probationary performance evaluations at the 3-month, 6-month, and 1-year benchmarks. Through this process, the supervisor evaluates how the staff person is performing relative to their job "objectives" (essential duties of the job) and "competencies" (behaviors and attributes of the position). An unsatisfactory performance, if noted, is immediately addressed to maintain a quality work force. EGLE also retains a training database to document continued staff training. In addition, the HW Program is subject to external audits and evaluations by entities, such as the Michigan Auditor General, the Office of Internal Audit Services, and the U.S. EPA, to ensure that the HW Program remains of high quality. The HW Program is required to participate in the development and revision of EGLE QMP.

EPA Grant Application Workplan Corrective Action Commitments for FY 2022 - 2023					
Current Name	Legal Name	City	Site ID	Staff	Commitment
FY 2022					
CA001 Corrective Action Oversight	1	[[[1
Black River Public Schools	Black River Public Schools	Holland	MID 006 411 953	Ronda Blayer	CA001
DPH DAS LLC	DPH DAS LLC	Flint	MID 005 356 647	Jacob Runge	CA001
RACER Livonia Eckles	Delco Chasis Industrial Land	Livonia MI	MID 005 356 621	Jacob Runge	CA001
BASF Corp	BASF Corp	Wyandotte	MID 064 197 742	Jacob Runge	CA001
Former Peregrine Coldwater Road Site	Revitalizing Auto Communities Environmental Response Trust	Flint	MIR 000 020 743	Jacob Runge	CA001
RACER Coldwater Road Landfill	Revitalizing Auto Communities Environmental Response Trust	Flint	MID 005 356 860	Jacob Runge	CA001
US Ecology Romulus	US Ecology (EQRR)	Romulus, MI	MID 060 975 844	Ronda Blayer	CA001
100 E Patterson (Tecumseh Products)	100 E Patterson LLC	Techumseh	MID 005 049 440	Joe Rogers	CA001
Adient - Universal Die Cast	Universal Die Cast	Saline, MI	MID 980 795 512	Christine Matlock	CA001
AK Steel Dearborn Works	AK Steel Dearborn Works	Dearborn	MID 087 738 431	Joe Rogers	CA001
Alma Facility	MRP Properties Co LLC	Alma	MID 005 358 130	Christine Matlock	CA001
Backer Landscaping Inc	Backer Landscaping Inc	Roseville MI	MID 006 523 385	Jeremy Pepin	CA001
BASF Corporation (Bayer Cropscience)	BASF Corp	Muskegon	MID 080 358 351	Jacob Runge	CA001
Bostik Inc	Bostik Inc	Marshall	MID 060 198 249	Andrew Bertapelle	CA001
Chrysler Introl Division (CorePointe)	Old Carco LLC	Dexter	MID 990 760 100	Joe Rogers	CA001
Delphi Automotive Systems LLC	Delphi Automotive Systems LLC	Saginaw	MID 005 356 845	Dale Bridgford	CA001
Dow Midland Off-site - Midland Area Soils	The Dow Chemical Co	Midland	MID 000 724 724	Art Ostaszewski	CA001

Dow Midland Off-site - Tittabawassee River & Floodplain	The Dow Chemical Co	Midland	MID 000 724 724	Dan Dailey	CA001
Dow Midland On-site	The Dow Chemical Co	Midland	MID 000 724 724	Dan Dailey	CA001
Edwards Oil Service Inc. (RTT of Detroit)	Edwards Oil Service Inc	Detroit	MID 088 754 668	Andrew Bertapelle	CA001
Ford River Raisin Warehouse	Ford River Raisin Warehouse	Monroe	MID 005 057 005	Christine Matlock	CA001
Former National Copper Products	Prarie Ronde Realty	Dowagiac	MID 005 068 507	Joe Rogers	CA001
Former TDY Vehicle Systems (L3 Communications)	Teledyne Vehicle Systems	Muskegon	MID 006 407 597	Dan Dailey	CA001
General Motors LLC - Lansing Plant 1	General Motors LLC	Lansing	MID 005 356 894	Christine Matlock	CA001
Hayes Lemmerz Tech Svc Inc	Hayes Lemmerz Tech Svc Inc	Ferndale	MID 041 803 123	Joe Rogers	CA001
Lacks Industries Cascade	Lacks Cascade	Grand Rapids	MID 006 014 666	Andrew Bertapelle	CA001
Lacks Industries Saranac	Lacks Saranac	Saranac	MID 080 359 433	Andrew Bertapelle	CA001
LE PETOMANE VII CUSTODIAL TRUST	LE PETOMANE VII CUSTODIAL TRUST	Detroit	MID 098 011 992	Dale Bridgford	CA001
Mahle Engine Components USA Inc	Mahle Engine Components USA Inc	Muskegon Heights	MID 980 499 735	Dan Dailey	CA001
RACER Flint West	The City of Flint	Flint, MI	MID 005 356 654	Shaun Shields	CA001
RACER Trust (Former GM Willow Run Powertrain)	Revitalizing Auto Communities Environmental Response Trust	Ypsilanti	MID 980 587 893	Kevin Lund	CA001
Reichhold Inc (All Properties)	Reichhold Inc	Ferndale	MID 020 087 128	Kevin Lund	CA001
Safety-Kleen Mason	Safety-Kleen Systems, Inc.	Mason	MID 981 000 359	Joe Rogers	CA001
Trex Properties LLC	Trex Properties LLC	Grand Rapids	MID 020 906 764	Jacob Runge	CA001
Univar USA	Univar USA	Caledonia	MID 980 681 696	Jacob Runge	CA001
Valicor Environmental Services	Valicor Environmental Services	Inkster	MID 057 002 602	Joe Rogers	CA001
Metavation	Vassar Acquisitions, LLC	Vassar	MID 005 513 262	Jacob Runge	CA001
Wacker Chemical Corp	Wacker Chemical Corp	Adrian	MID 075 400 671	Dan Dailey	CA001
	FY	2023			
CA001 Corrective Action Oversight					
100 E Patterson (Tecumseh Products)	100 E Patterson LLC	Techumseh	MID 005 049 440	Joe Rogers	CA001
AK Steel Dearborn Works	AK Steel Dearborn Works	Dearborn	MID 087 738 431	Joe Rogers	CA001
BASF Corporation (Bayer Cropscience)	BASF Corp	Muskegon	MID 080 358 351	Jacob Runge	CA001
Chrysler Introl Division (CorePointe)	Old Carco LLC	Dexter	MID 990 760 100	Joe Rogers	CA001
Dow Midland Off-site - Midland Area Soils	The Dow Chemical Co	Midland	MID 000 724 724	Art Ostaszewski	CA001
Dow Midland Off-site - Tittabawassee River & Floodplain	The Dow Chemical Co	Midland	MID 000 724 724	Dan Dailey	CA001
Dow Midland On-site	The Dow Chemical Co	Midland	MID 000 724 724	Dan Dailey	CA001

Enthone OMI Inc	Enthone OMI Inc	Warren	MID 056 717 747	Kimberly Tyson	CA001
Ford Motor Company - Saline Plant	Ford Motor Company	Saline	MID 009 305 665	Christine Matlock	CA001
Former Detroit Coke Corporation Site	Honeywell International Inc	Detroit	MID 099 114 704	Christine Matlock	CA001
Former GM Company Vehicle Operations (Willow Run CVO)	Revitalizing Auto Communities Environmental Response Trust	Ypsilanti	MID 005 356 795	Kevin Lund	CA001
Former GM Lansing Car Assembly - Plant 6	Revitalizing Auto Communities Environmental Response Trust	Lansing	MID 005 356 928	Christine Matlock	CA001
Former GMC & LMC - Lansing Plant 2 & 3	Revitalizing Auto Communities Environmental Response Trust	Lansing	MID 980 700 827	Christine Matlock	CA001
Former National Copper Products	Prarie Ronde Realty	Dowagiac	MID 005 068 507	Joe Rogers	CA001
Former TDY Vehicle Systems (L3 Communications)	Teledyne Vehicle Systems	Muskegon	MID 006 407 597	Dan Dailey	CA001
GM LLC	GM LLC	Romulus, MI	MIK 843 848 243	Joe Rogers	CA001
Hayes Lemmerz Tech Svc Inc	Hayes Lemmerz Tech Svc Inc	Ferndale	MID 041 803 123	Joe Rogers	CA001
Pfizer/Warner-Lambert Co LLC Former Manufacturing Site	Warner Lambert Co LLC	Holland	MID 006 013 643	Andrew Bertapelle	CA001
Safety-Kleen Mason	Safety-Kleen Systems, Inc.	Mason	MID 981 000 359	Joe Rogers	CA001
Solutia Inc East Property	Solutia Inc East Property	Trenton	MID 009 708 678	Andrew Bertapelle	CA001
Valicor Environmental Services	Valicor Environmental Services	Inkster	MID 057 002 602	Joe Rogers	CA001
Wayne Disposal Inc Site 1	Wayne Disposal Inc	Belleville	MID 048 090 633	Christine Matlock	CA001
Wacker Chemical Corp	Wacker Chemical Corp	Adrian	MID 075 400 671	Dan Dailey	CA001