Jackson Public Schools Stormwater Management Program Plan

Municipal Separate Storm Sewer System (MS4) National Pollutant Discharge Elimination System (NPDES) Stormwater Discharge Permit

PERMIT NO. In-Process

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Appendices

Appendix A	Outfall/Discharge Point Receiving Water Table & Site Stormwater Structure Maps
Appendix B	Enforcement Policies and Tracking Forms
Appendix C	SEMCOG Poster & Illicit Discharge Poster
Appendix D	Inspection Field Worksheets
Appendix E	Property Structural Controls Inventory, Inspection, & Maintenance Schedule
Appendix F	Contractor Oversight & Employee Training Documentation
Appendix G	TMDL Sample Location Table

Stormwater Management Program Plan

1.0 Introduction

Jackson Public Schools is a public school district based in Jackson, Michigan that owns or operates a regulated Municipal Separate Storm Sewer System (MS4). This Stormwater Management Plan (SWMP) has been developed to retain authorization to discharge stormwater to surface waters and reduce the discharge of pollutants from the MS4 to the Maximum Extent Practicable and protect water quality. Jackson Public Schools will implement and enforce this SWMP to the Maximum Extent Practicable.

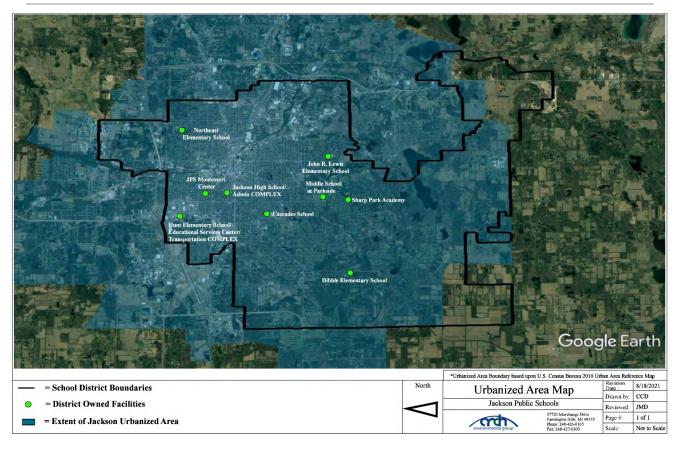
This Stormwater Management Plan commits to actions throughout the permit cycle. This SWMP includes measurable goals for Best Management Practices (BMP), focusing on the six minimum measures. Measurable goals describe the actions Jackson Public Schools will take to implement each BMP and allow Jackson Public Schools to evaluate progress toward meeting key objectives outlined in the following sections.

Jackson Public Schools owns and operates nine (9) public properties within the boundaries of the Jackson Urbanized Area. All Jackson Public Schools properties are within the urbanized area based off of the 2010 Census data, and the facilities include:

- 1. Cascades School, 1200 S. Wisner, Jackson, Michigan
- 2. Dibble Elementary School, 3450 Kibby Road, Jackson, Michigan 49203
- **3.** Hunt Elementary School/Educational Service Center, 1143 North Brown Street, Jackson, Michigan 49203/Transportation Facility, 1401 N. Brown Street, Jackson, MI 49202 COMPLEX
- 4. Jackson High School, 544 Wildwood Ave., Jackson, Michigan 49201/Administration Building, 522 Wildwood, Jackson, Michigan 49201 COMPLEX
- 5. John R. Lewis Elementary School, 154 W. Clark Street, Jackson, Michigan 49203
- 6. JPS Montessori Center (Formally Bennett Elementary School), 820 Bennett Street, Jackson, Michigan 49202
- 7. Middle School at Parkside, 2400 Fourth Street, Jackson, Michigan 48203
- 8. Northeast Elementary School, 1024 Fleming Ave., Jackson, Michigan 49202
- 9. Sharp Park Academy, 766 Park Road, Jackson, Michigan 48203

1.1 Regulated Area

A map identifying the urbanized area within the Jackson Public Schools urbanized area as defined by the 2010 Census is provided below in Map 1.



Map 1 – District Jurisdictional Boundary Map – Urbanized Area¹

1.2 Outfalls & Discharge Points/ Receiving Waters

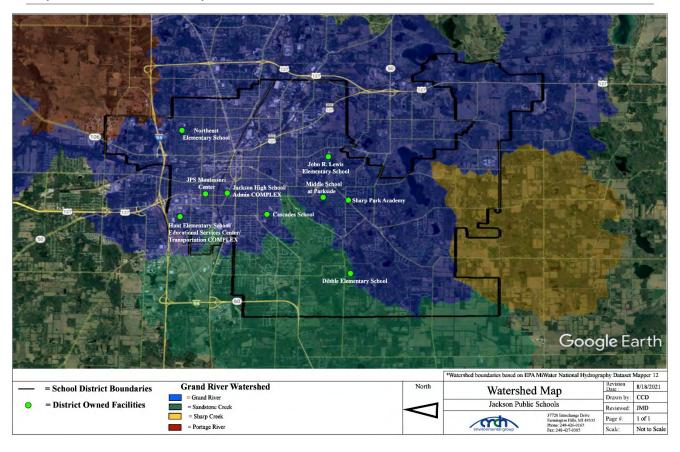
The permit authorizes the discharge of stormwater from municipal separate stormwater drainage systems to waters of the state from all existing outfalls or points of discharge.

Jackson Public Schools has identified outfalls that discharge directly into surface waters of the state and discharge points that discharge into other MS4 drainage systems. The Jackson Public Schools drainage system discharges directly or indirectly into the Grand River Watershed as detailed in Map 2 below.

Jackson Public Schools has completed site specific storm sewer system maps which identify outfall and discharge point locations, discharge point source identification numbers, and receiving waters. A receiving water table and site-specific storm sewer system maps are provided in Appendix A. Any changes to the Jackson Public Schools storm sewer system will be reflected on the storm sewer system maps and provided to the EGLE during progress reporting. The district watershed boundary map is provided below in the map listed as Map 2.

¹ Urbanized area boundary based on U.S. Census Bureau 2010 Urban Area Reference Maps.

Map 2 – District Watershed Map²



1.3 Enforcement Response Procedures

The Jackson Public Schools properties are regulated as an MS4 under the NPDES Permit program. Environmental compliance staff members from Jackson Public Schools have the authority to inspect and monitor stormwater-related activities on campus and require full compliance with all stormwater permit requirements. Enforcement of Jackson Public Schools policies, procedures, and best management practices (BMPs) outlined in this SWMP is the responsibility of the Stormwater Program Manager or their designee. Any questions regarding this policy and procedure will be directed to the Stormwater Program Manager.

The primary role of the Superintendent or their designee is to ensure that the ERP is followed in a timely and consistent manner and track compliance issues and schedules. To achieve compliance, the following steps may be conducted:

- 1. Reviews reported violation.
- 2. Contact business or non-district individual responsible for the violation.
- 3. Ensures that compliance actions taken are consistent and timely.

² Watershed boundaries based on Environmental Protection Agency MiWaters Mapper National Hydrography Dataset Mapper 12-Digit Watersheds.

- 4. Tracks instances of noncompliance.
- 5. Review compliance reports and schedules to ensure that appropriate enforcement actions are taken, and compliance goals are met.
- 6. Conduct follow-up inspection(s) to verify the violation has been corrected.
- 7. Legal action may be pursued for the most serious violations including where the response to previous enforcement actions is inadequate.

The tracking of instances of noncompliance includes the following information:

- Name
- Date
- Location of Violation (address, cross streets, etc.,)
- Business/Agency/Organization (as appropriate)
- Description of Violation
- Description of Enforcement Response
- Date Violation was Resolved

Information shall be placed into the Districts Noncompliance Enforcement Tracking Sheet.

This procedure will be reviewed on an annual basis by the Stormwater Manager for any updates. A copy of the SW Illicit Discharge Regulatory Policy is included with and an example of the Municipal Separate Storm Sewer System Noncompliance Enforcement Tracking Sheet in Appendix B.

2.0 Stormwater Management Program Plan (SWMP) Minimum Control Measures

This SWMP has been developed to describe the Best Management Practices (BMPs) Jackson Public Schools will implement to meet the six minimum control measures and water quality requirements. The six minimum control measures include:

- Public Participation/Involvement Program (PPP)
 To share components of the SWMP and encourage participation in its review and implementation.
- Public Education Program (PEP)
 To promote, publicize, and facilitate education for the purpose of encouraging the public to reduce the discharge of pollutants to stormwater to the maximum extent practicable.
- Illicit Discharge Elimination Program (IDEP)

To detect and eliminate illicit connections and discharges to the MS4.

Construction Stormwater Runoff Control Program

To augment Part 91 rules dealing with soil erosion, offsite sedimentation, and other construction-related wastes.

• Post-Construction Stormwater Runoff Program

To address post-construction stormwater runoff from projects that disturb one acre or more, including projects less than one acre that are part of a larger common plan of development that would disturb one acre or more.

• Pollution Prevention/Good Housekeeping Program

To minimize pollutant runoff to the maximum extent practicable from municipal operations that discharge stormwater to the surface waters of the state.

Each BMP includes a measurable goal, implementation schedule, and measure of assessment.

2.1 Public Involvement/Participation Program (PPP)

Engaging and empowering the public in the effort to reduce the impacts of stormwater runoff is a key element of the public involvement/participation program.

2.1.1 Public Involvement/Participation Program Objectives

- 1. Process for making the Stormwater Management Plan available for public inspection and comment.
- 2. Process for inviting public involvement and participation in the implementation of SWMP best management practices and periodic review of the SWMP.

2.1.2 Public Involvement & Participation Procedure

- 1. As required, the approved Stormwater Management Program (SWMP) will be made available to the public via the district website throughout the permit cycle.
- 2. The stormwater webpages will include contact information for public comments.
- 3. The public will be notified through announcements or newsletters that a copy of the SWMP is available on the district stormwater webpage.
- 4. A public survey has been developed and placed on the Jackson Public Schools stormwater webpage in an effort to provide input into stormwater implementation.
- 5. A link to a stormwater blog "Cleanwater Chronicles" has been added to the Jackson Public Schools stormwater webpage. The stormwater blog explains water quality issues and promotes opportunities for public involvement.
- 6. Cooperation with local watershed protection groups.

2.1.3 Public Involvement & Participation Assessment

1. Jackson Public Schools will review the public involvement & participation BMPs as part of annual SWMP review to determine level of district involvement and identify areas of improvement.

2.1.4 Public Involvement & Participation Program (PPP) BMP Table

BMP	Implementation of BMP	Timeframe	Measurable Goal	Measure of Assessment	Responsible Party
	Make SWMP available for public review through stormwater webpage.			Verify SWMP available on stormwater webpage, and track changes webpage posting of SWMP.	
BMP #2.1.4.1 Public Notice of SWMP	Notification in annual district newsletter to publicize updated SWMP and locations for review.	Annually Throughout Permit Cycle	Public notice published in annual district wide newsletter announcing the availability of the SWMP for review, including contact information for	Keep copies of official SWMP posting notifications.	Jackson Public Schools
	Contact information will be available on the stormwater webpages to forward comments regarding the SWMP.		comments.	Compile and track comments from the public.	
BMP #2.1.4.2 Stormwater Blog	Post link to stormwater blog on district website.	Ongoing Throughout Permit Cycle	A link to a stormwater blog established and maintained on the district stormwater webpage to assist in distributing information and updating the public on the watershed and activities.	Copies of monthly stormwater blog postings for reporting period.	Jackson Public Schools
BMP #2.1.4.3 Stormwater Education Program Survey	Post survey on district website.	Ongoing Throughout Permit Cycle	bughout throughout the permit term to assess Results of completed surveys.		Jackson Public Schools
BMP #2.1.4.4 Participation Activities	Engage in environmental education activities.	Ongoing Throughout Permit Cycle	Increase in public participation in environmental activities and outreach events. Participation activities include water quality issues, stormwater management initiatives, home toxics, recycling, compost, and disposal.	Reports of participation.	Jackson Public Schools

Jackson Public Schools Stormwater Management Program Plan (SWMP)

BMP	Implementation of BMP	Timeframe	Measurable Goal	Measure of Assessment	Responsible Party
BMP #2.1.4.5 Public Involvement & Participation Program Assessment	Evaluate the effectiveness of the public involvement program.	Annually Throughout Permit Cycle	Complete as part of annual SWMP review to determine level of district involvement and identify areas of improvement. Program activities may be adjusted based on the results of the assessment.	Copies of annual SWMP review noting any areas of needed improvement.	Jackson Public Schools

2.2 Public Education Program (PEP)

Jackson Public Schools' "Public Education Program (PEP)" is designed to promote, publicize, and facilitate education for the purpose of encouraging the public to reduce the discharge of pollutants into the Jackson Public Schools separate storm sewer system.

The term "Public" as referred in to in this program is defined to include all persons who could potentially affect the quality of stormwater discharges from Jackson Public Schools properties including but not limited to Jackson Public Schools faculty, staff, contractors, and students of Jackson Public Schools, as well as area residents, visitors, public employees, local businesses, industries, construction contractors and property developers. This PEP will include a variety of mechanisms and venues to provide watershed awareness and pollution prevention education throughout the Jackson Public Schools jurisdiction.

2.2.1 Public Education Program Objectives

- 1. Responsibility and stewardship in their watershed.
- 2. Inform and educate the public about the connection of the MS4 to area waterbodies and the potential impacts discharges could have on surface waters of the state.
- 3. Educate the public on illicit discharges and promote public reporting of illicit discharges and improper disposal of materials into the MS4.
- 4. Promote preferred cleaning materials and procedures for car, pavement, and power washing.
- 5. Inform and educate the public on the proper application and disposal of pesticides, herbicides, and fertilizers.
- 6. Promote proper disposal practices for grass clippings, leaf litter, and animal wastes that may enter the MS4.
- Identify and promote the availability, location, and requirements of facilities for collection or disposal of household hazardous wastes, travel trailer sanitary wastes, chemicals, yard wastes, and motor vehicle fluids.
- 8. Inform and educate the public on proper septic system care and maintenance, and how to recognize system failure.
- 9. Promote methods for managing riparian lands to protect water quality.
- 10. Provide training for staff.

2.2.2 Public Education Program Procedure

Jackson Public Schools is targeting all community wide issues as high priority. No prioritization will be needed, as educational activities to ensure that all community wide issues are reached to the public. It is anticipated that during this permit a combination of educational approaches will be used to convey the individual components of the PEP. Educational mechanisms will include tracking of watershed specific education topics in various science curriculums, cooperation with the distribution or posting of community newsletters and other watershed partner literature, and event notices. Jackson Public Schools has developed and implemented a comprehensive "Stormwater Management" webpage on the district's website. Additionally, program posters are strategically placed throughout school facilities. Copies of SEMCOG posters are provided in Appendix C.

2.2.3 Public Education Program BMP Table

ВМР Торіс	Description of BMP	Timeframe	Measurable Goal & Key Messages	Measure of Assessment	Target Audience	Responsible Party
	Watershed website. Watershed specific website hosted by district, featuring watershed map, description of watershed, and links to watershed groups.	Ongoing Throughout	Supply watershed information and promote watershed membership information. Educate the public on local water body health.	Update webpages as necessary. Confirm posting & track webpage reviews. Provide watershed membership information.	Students, faculty, and	
	Place SEMCOG "7 Simple Steps to Clean Water" information on stormwater webpages.		SEMCOG "7 Simple Steps to Clean Water" information and links.	Update webpages as necessary. Confirm posting & track webpage reviews.	community	Jackson Public Schools
BMP #2.2.3.1 Promote public responsibility and	romote public Review K-12 Science Curriculum Ar esponsibility and to highlight items applicable to Ar tewardship in this program plan. Perr vatershed. Publicize environmental related or Or Publicize through email, Through email, Through email	Curriculum Annually Throughout Permit Cycle	Review and update curriculum table, detailing number of students/grades level participating within each identified curriculum topic.	Updated curriculum table.	Faculty & - students	
stewardship in watershed.			Communicate with faculty regarding the resources available to reach the student audience.	Documentation of communication with faculty.		
				Date, time location and name of event attended.		
		Ongoing Throughout Permit Cycle	roughout environmental issues and increase mit Cycle district environmental participation.	Maintain copies of email notices (watershed announcement) of educational materials provided to district staff.	Students, faculty, and community	

BMP Topic	Description of BMP	Timeframe	Measurable Goal & Key Messages	Measure of Assessment	Target Audience	Responsible Party
	Posting of the training video "When it Rains, it DrainsThe Stormwater Question" on the district webpage.	Ongoing Throughout Permit Cycle	Educate the public on local water bodies, water quality issues, and impacts of discharges on surface waters through visual media.	Update webpages as necessary. Confirm posting & track webpage reviews.	Students, faculty, and community Jackson Pul Schools Faculty Jackson Pul Schools Faculty Students, faculty, and community	
BMP #2.2.3.2 Educate the public	Include information and links to USEPA and EGLE Stormwater information on district stormwater webpage.		Provide resources to water quality issues and impacts of discharges on surface waters.	Update webpages as necessary. Confirm posting of links & track webpage reviews.		
about the connection of the MS4 to the area waterbodies and the potential impacts discharges could have on surface waters of the state.	SEMCOG posters placed strategically throughout the district.		Maintain three (3) various SEMCOG posters at each facility. Strategic locations include Main Office, Lounge, and Receiving Area (if available).	Annual review of postings. Number of posters placed throughout district.		Jackson Public Schools
	General Stormwater Awareness Training	Ongoing Throughout Permit Cycle -	Encourage teachers, administrative and support staff to watch the General Awareness Stormwater Video "When it Rains it Drains."	Copy of sign in sheets and Agenda (if available).		
			Post stormwater training video on stormwater webpage.	Update webpages as necessary. Confirm posting & track webpage reviews.		

BMP Topic	Description of BMP	Timeframe	Measurable Goal & Key Messages	Measure of Assessment	Target Audience	Responsible Party
	Publicize 24-hour environmental hot-line phone numbers and instructions for reporting spills,		Track # of calls received on hotline per year. All calls to be addressed and record outcome of calls. Goal of an overall decrease in number of illicit discharges in improper disposal of materials into MS4s.	Number of calls to the Stormwater Manager.		
	illicit discharges, or connections.		Place 24-hour environmental hot-line posters throughout the district.	Promotion/ publicizing efforts; number of posters placed throughout district.		
BMP #2.2.3.3 Educate the Public on	Pollutants & Illicit Discharges webpage; featuring information regarding sources of pollution,	Ongoing Throughout Permit Cycle Update as needed Throughout Permit Cycle	Maintain illicit discharge webpage.	Update webpages as necessary. Confirm posting & track webpage reviews.	Students, faculty, and community	
Illicit Discharges and promote public reporting of illicit discharges and improper disposal of materials into the MS4.	Ilicit Discharges and promote publichow pollutants cause damage, illicit discharges. How to Report/Hotline Numbers poster; describing illicit discharges and how to report illicit discharges.		Place "How to spot illicit discharge/ How to Report-Hotline Numbers" posters placed in Receiving Rooms at each district facility. Goal is to have one poster at each facility.	Annual review of postings. Number of posters placed throughout district.		Jackson Public Schools
	SEMCOG posters placed strategically throughout the district.		Goal to maintain three (3) various SEMCOG posters at each facility. Strategic locations include Main Office, Lounge, and Receiving Area (if available).	Annual review of postings. Number of posters placed throughout district.		
	The district implements an active storm drain labeling/ marking program.		Visually making a connection of storm drains to local waterways and the impacts of dumping pollutants into these drains, increase number of staff, students and visitors who can identify the connection. Mark all drains on pervious surfaces.	Annual inventory of stenciled basins.		

BMP Topic	Description of BMP	Timeframe	Measurable Goal & Key Messages	Measure of Assessment	Target Audience	Responsible Party	
BMP #2.2.3.4 Promote preferred cleaning materials and procedures for car,	SEMCOG posters placed strategically throughout the district.	Ongoing Throughout Permit Cycle	Goal to maintain three (3) various SEMCOG posters at each facility. Strategic locations include Main Office, Lounge, and Receiving Area (if available).	Annual review of postings. Number of posters placed throughout district.	Students, faculty, and community	Jackson Public Schools	
pavement, and power washing.	Discontinue practice of allowing school or other private groups from holding car wash fund raising project on school property.	Annually Throughout Permit Cycle	Send reminder email notice to all school Principals, Athletic Directors regarding the policy.	Copy of annual notice.	Faculty & students	Schools	
BMP #2.2.3.5 Inform and educate the public on proper	inform and educate the ublic on proper	Housekeeping" informational page on stormwater management webpages. Ongoing Throughou		Address the environmental (including water quality) and resulting from improper handling and disposal of pesticides, herbicides, and fertilizers.	Update webpages as necessary. Confirm posting & track webpage reviews.	Students, faculty, and community	Jackson Public Schools
application and disposal of pesticides, herbicides, and fertilizers.	SEMCOG posters placed strategically throughout the district.	Permit Cycle	Goal to maintain three (3) various SEMCOG posters at each facility. Strategic locations include Main Office, Lounge, and Receiving Area (if available).	Annual review of postings. Number of posters placed throughout district.			

ВМР Торіс	Description of BMP	Timeframe	Measurable Goal & Key Messages	Measure of Assessment	Target Audience	Responsible Party
BMP #2.2.3.6 Promote proper disposal practices for grass clippings, leaf litter, and animal wastes that may enter into the MS4.	Promote proper disposal practices for grass clippings, leaf litter, and animal wastes that may		Goal to maintain three (3) various SEMCOG posters at each facility. Strategic locations include Main Office, Lounge, and Receiving Area (if available).	Annual review of postings. Number of posters placed throughout district.	Students, faculty, and community	Jackson Public Schools
BMP #2.2.3.7 Identify and promote the availability, location, and requirements of facilities for collection and disposal of household hazardous wastes, travel trailer wastes, chemicals, and motor vehicle fluids.	BMP #2.2.3.7 Identify and promote the availability, location, and requirements of facilities for collection and disposal of household hazardous wastes, travel trailer wastes, chemicals, and		Address the environmental (including water quality) and public health effects resulting from improper handling and disposal of household hazardous waste, reduce the use of home toxics, keep citizens informed about the choices and responsibilities associated with purchasing, handling, and disposing of toxic substances. Increase the number of residents using the program to dispose of home toxics.	Update webpages as necessary. Confirm posting & track webpage reviews.	Students, faculty, and community	Jackson Public Schools
BMP #2.2.3.8 Inform and educate the public on proper septic system care and maintenance, and how to recognize system failure.	Maintain a district "Sewer Overflows and Septic Systems" informational page on stormwater management webpages.	Ongoing Throughout Permit Cycle	Educate why sewer overflows and septic systems are pollution issues. Promote proper and consistent maintenance of septic systems.	Update webpages as necessary. Confirm posting & track webpage reviews.	Students, faculty, and community	Jackson Public Schools

ВМР Торіс	Description of BMP	Timeframe	Measurable Goal & Key Messages	Measure of Assessment	Target Audience	Responsible Party	
BMP #2.2.3.9 Encourage teachers at to participate in stread to participate in stread monitoring programs. Include guidance and	Maintain a district "Riparian Zone Management" informational page on stormwater management webpages.	Ongoing Throughout Permit Cycle	Educate on why riparian zones are important, what riparian zona management is (river friendly lawn care, riparian buffer zones, stream bank stabilization, woody debris management, river maintenance). Increase number of riparian landowners who implement BMPs.	Update webpages as necessary. Confirm posting & track webpage reviews.	Students, faculty, and community	Jackson Public Schools	
	Encourage teachers and students to participate in stream bank monitoring programs.		Increase awareness, inspire people to take actions that lead to better river protection at home and in their communities.	Report on schools that participated in monitoring programs.	Students and faculty		
	Include guidance and links on Stormwater webpage on native vegetation.	Ongoing Throughout Permit Cycle	Maintain a district "Native, Non- Native, & Invasive Species" and "Why Use Native Plants?" informational page on stormwater management webpages. Increase the use of native plants and encourage the use of gardens at school facilities.	Update webpages as necessary. Confirm posting & track webpage reviews.	Students, faculty, and community	Jackson Public Schools	
BMP #2.2.3.10 Stormwater Education Program Effectiveness Survey	Stormwater Education Program Effectiveness Post survey on district website		A survey has been posted on the stormwater webpages and will be posted throughout the permit term to ascertain behavioral changes.	Annual results of survey.	Students, faculty, and community	Jackson Public Schools	
BMP #2.2.3.11Summary of annual publicPublic Educationeducation activities for theProgram Effectiveness"Public Education" component toAssessmentevaluate the effectiveness.		Annually Throughout Permit Cycle	Determine if the public education best management practices have been implemented and identify areas of improvement.	Annual SWMP review. Summary of public education activities. Survey results review.	Students, faculty, and community	Jackson Public Schools	

2.2.4 Curriculum

Jackson Public Schools has conducted a review of the current State of Michigan K-12 science curriculum to determine which topics and grade levels have applicability toward the goals of the SWMP. The Jackson Public Schools K-12 science curriculum has been developed as required under Michigan Department of Education "Grade Level Content Expectations". Jackson Public Schools encourages schools to incorporate watershed awareness, pollution prevention, recycling, ecology, and energy conservation into the core curriculum throughout the district.

The current K-12th grade Earth Science curriculum provides students with a wide range of topics specifically related to this permit. A listing of current (K-12) grade level curriculum topics including grade level, curriculum code, description, and any additional activities included in the specific course work is provided in the table below.

Grade	Curriculum Code	Description
к	K-ESS3-3	Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment.
2	2-ESS1-1	Use information from several sources to provide evidence that Earth events can occur quickly or slowly
2	2-ESS2-2	Develop a model to represent the shapes and kinds of land and bodies of water in an area.
2	2-ESS2-3	Obtain information to identify where water is found on Earth and that it can be solid or liquid.
4	4-ESS2-1	Make observations and/or measurements to provide evidence of the effects of weathering or the rate of erosion by water, ice, wind, or vegetation
5	5-ESS2-2	Describe and graph the amounts and percentages of water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.
5	5-ESS3-1	Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.
6-8	MS-ESS2-4	Develop a model to describe the cycling of water through Earth's systems driven by energy from the sun and the force of gravity.

Stormwater Program Related Science Curriculum K-12th Grade

Grade	Curriculum Code	Description
6-8	MS-ESS3-1	Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.
6-8	MS-ESS3-3	Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.
6-8	MS-ESS3-4	Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.
9-12	HS-ESS2-5	Plan and conduct an investigation of the properties of water and its effects on Earth materials and surface processes.
9-12	HS-ESS3-1	Construct an explanation based on evidence for how the availability of natural resources, occurrence of natural hazards, and changes in climate have influenced human activity
9-12	HS-ESS3-6	Use a computational representation to illustrate the relationships among Earth systems and how those relationships are being modified due to human activity.

2.2.5 Public Education Program Effectiveness

The effectiveness of the public education program will be evaluated based on progress made towards meeting the BMP objectives described above.

The District has implemented a "Watershed Awareness Survey" to be used as an evaluation. The purpose of these surveys is to provide an assessment of public understanding of issues in the watershed related to pollution from stormwater runoff. Results would be used to guide Jackson Public Schools in identifying opportunities for enhancement of the PEP. Additionally, Jackson Public Schools will conduct an annual review of the public education best management practices to determine if they have been implemented and identify areas of improvement.

2.3 Illicit Discharge Elimination Program (IDEP)

The following Jackson Public Schools Illicit Discharge Elimination Program is designed to identify, locate, prohibit, and effectively eliminate illicit discharges, including discharges of sanitary wastewaters, to the permitted separate stormwater drainage systems.

2.3.1 Illicit Discharge Elimination Program (IDEP) Program Objectives

- 1. Establish authority to investigate, inspect and monitor suspected illicit discharges.
- 2. Maintain maps of the MS4, points of discharge, and outfalls.
- 3. Prohibit non-stormwater discharge into the MS4.
- 4. Provide regular training to staff.
- 5. Instruct contractors to prevent dumping into the MS4.
- 6. Conduct routine dry weather screening.
- 7. Conduct source investigations if the source of an illicit discharge/connection is not identified by field screening.
- 8. Illicit discharge identification and elimination program performance & effectiveness.

2.3.2 Facility Site Storm Sewer System Maps and Lists

Jackson Public Schools and consultants completed storm sewer system mapping at each of the owner operated properties identified in Section 1.0 of this Stormwater Management Plan. Storm sewer system maps include detailed information of the storm sewer system, including the locations of outfalls, points of discharge, and waters of the State that receive the discharges. The maps include a unique identification number for each storm sewer location identified on the map. Latitude and longitude are also noted for outfall and points of discharge location. Storm sewer system information will be maintained and updated and reported in Progress Reports.

Outfalls are discharge points where stormwater is discharged directly to surface waters of the state. Surface waters of the state include streams, lakes, ponds, county drains, and wetlands. Outfalls can be pipes, ditches, or even sheet flow from the facility. Some facilities will have an outfall where they can manually control the discharge.

Points of Discharge are discharge points where stormwater is discharged to a municipal or private separate storm sewer system. The visual assessment will be conducted as close to the point of discharge as possible before the storm water enters the municipal or private separate storm sewer system. Points of discharge include on-site catch basins and trench drains, in-street catch basins, and conveyances to roadside ditches.

Copies of the current facility storm sewer system maps are available at the Transportation Facility, 1401 N. Brown Street, Jackson, Michigan 49202. Additionally, copies of the storm sewer system maps and a list of the outfalls and points of discharge are provided in Appendix A.

2.3.3 Illicit Discharge Identification & Investigation Procedure – Field Observations

Jackson Public Schools will conduct field observations for 100% of all outfalls and points of discharge locations during dry weather or more expeditiously if Jackson Public Schools becomes aware of a non-stormwater discharge. Outfalls and points of discharge will be inspected by personnel trained to recognize all signs of possible illicit discharges. Dry weather screening will occur at least once every 5 years. Jackson Public Schools will conduct DWS once during this 5-year permit cycle. Preferably, each outfall and points of discharge will be inspected following a period of at least 48-72 hours of dry weather.

The field observations will focus on visual inspection for the following:

- Outfall/point of discharge number
- Date/name of inspector
- Date of last rainfall
- Presence or absence of flow
- Presence or absence of standing water
- Water clarity and color
- Presence of oil sheen, trash and or other floatable materials
- Presence of bacterial sheen or slimes
- Excessive vegetative growth
- Odor
- Suds
- Presence of oil
- These characteristics are documented even if no flow is observed at the time of the inspection.

All field observations are detailed on a "Screening Inspection Log." A copy of the Screening Inspection Log is provided in Appendix D.

During field observations, in instances where the storm sewer outfalls and points of discharge is submerged or is connected to another enclosed sewer, the inspector will observe the nearest upstream storm sewer location or access point. Additionally, if dry weather flow is observed and it is obvious that an illicit discharge is present and the source of the discharge is obvious, Jackson Public Schools will document the observations and the source and follow-up with applicable parties. Once a potential discharge is indicated at an outfall or point of discharge, additional inspection, field screening and source investigation activities are conducted.

2.3.4 Illicit Discharge Identification & Investigation Procedure – Field Screening & Source Investigation

At the time of the outfall or discharge point inspection, if dry weather flow is observed and the source is not obvious, the inspector who identified the discharge shall immediately conduct an upstream source investigation to determine the origin of the flow. The initial investigation includes visual and olfactory observations upstream from the outfall/point of discharge. If necessary, relevant indicator field screening or dye tracing will be conducted.

If the origin of the flow is not identified during the visual upstream investigation, a grab sample is collected within 24 hours from the discharge for indicator field screening analysis. Indicator monitoring/field screening is the secondary tool utilized for dry weather flow without obvious indicators such as very high turbidity, strong odors, or visible discharge. Screening may include some or all of the indicator parameters:

- Temperature
- pH
- Detergents (i.e., surfactants)
- Chlorine
- Ammonia
- Turbidity
- Conductivity

Indicator parameters used to assess the dry weather flow shall be determined by the visual and olfactory observations and upstream source investigation.

Additional grab samples may be collected and delivered for external laboratory analysis, only if additional test parameters are required for the source investigation. The laboratory analysis parameters for grab samples are determined by the type of contamination suspected at the time of the source investigation.

Laboratory indicator parameters are based on EGLE guidance and as specified in the reference sources identified above. The selected laboratory parameters are:

- Fluoride
- Coliform
- E-coli
- Potassium
- Color
- Ammonia

The exact procedure for tracking the illicit discharge will depend on the particular facts of each incident. At the time of the identification of the observed dry weather flow, the flow will be tracked upstream until the source is isolated. Once the source has been isolated down to a specific site location, the work will become source confirmation. If the source is not confirmed, additional fieldwork, building evaluation, or dye testing may be necessary. Additional source investigations will be conducted within 14 days of the original observed dry weather flow.

Once the elimination of an illicit connection or illicit discharge has occurred, an elimination report detailing the corrective actions with attached work orders, photos or dye tracing results will be compiled for documentation purposes. Field inspections will continue until it can be reported that no illicit connection or discharge is present at that outfall/point of discharge.

2.3.5 Illicit Discharge/Connection Elimination Procedure

Illicit discharges and connections are identified through reporting, routine storm sewer system inspections and dry weather screening inspections. A "How to Spot Illicit Discharges" poster along with a "How to Report/Hotline Numbers" posters are placed in the receiving/custodial areas in each facility to report concerns. Jackson Public Schools goal is to evaluate all potential unauthorized or suspected illicit discharge to the municipal separate storm sewer system (MS4) and perform any necessary notifications and reporting to the applicable agencies (i.e., EGLE, local drain commission, etc.) within the required time period(s).

Jackson Public Schools will evaluate and conduct the following actions regarding reported or observed illicit discharges/illegal dumping spills into the storm drainage system.

- Suspected discharges will be investigated within 24 hours. Jackson Public Schools will ensure enforcement actions within 7 days.
- Conduct source investigations, including applicable field screening to trace the origin of the materials within 14 days of the reported/observed illicit discharge.
 - Jackson Public Schools will follow existing spill response procedures outlined in <u>Section 2.3.10</u>, <u>under Spill Response, Policy & Procedures</u>, if required.

- Once the source has been isolated down to a specific site location, the work will become source confirmation.
- If the responsible party is identified, educate the party on the impacts of their actions, explain the stormwater requirements, and provide information regarding Best Management Practices.
- Evidence of illicit discharges traced to other MS4 jurisdictions will be provided to the responsible MS4 operator along with any collected data to assist that MS4 operator in completing their investigations to correct the illicit discharge or connection.
- Jackson Public Schools will cooperate with the MS4 operator in determining the source or type of illicit discharge and/or connection and will follow-up to ensure that appropriate action has been completed by the MS4 operator to eliminate the discharge.
- Continue inspection and follow-up activities until the illicit discharge activity has ceased.
- Document all activities utilizing the Illicit Discharge/Illegal Dumping Reporting form.

A copy of the Illicit Discharge/Illegal Dumping Reporting form is located in Appendix B.

Once an illicit discharge has been confirmed from a Jackson Public Schools facility, the discharge will be corrected using the most expedient method possible based on the type and configuration of the discharge or connections. Other illicit discharges or releases of polluting materials will be corrected through administrative measures including employee training, placement of signs or markings, policy revisions, or any other steps necessary to eliminate the continued release of polluting materials to the MS4.

Within 60 days of a confirmed illicit connection from a Jackson Public Schools facility, Jackson Public Schools will take steps to fix or eliminate the illicit connection. These steps include a review of corrective methods to be used to repair or eliminate the connection, determine the length of time the repair or elimination will take to complete, the cost of the elimination, the pollution potential and consider how the removal of the illicit connection will be confirmed. Corrective methods include capping, closing, or re-routing illicit connections to the sanitary sewer or other collection systems.

2.3.6 Illicit Discharge Regulatory Mechanism/Policy

The district developed a "Stormwater Management – Illicit Discharge Regulatory Policy." This illicit discharge regulatory policy was developed as a regulatory policy for prevention of pollution from storm water runoff and to protect the quality of the waters of the State of Michigan through the regulation of non-stormwater discharges to the municipal separate storm sewer system (MS4) to the maximum extent practicable as required by federal and state law. This regulatory mechanism establishes methods for controlling the introduction of pollutants into the MS4 in order to comply with the requirements of the National Pollutant Discharge Elimination System (NPDES) permit through the Michigan Department of Environment, Great Lakes, and Energy (EGLE). The objectives of the regulatory mechanism are:

Department of Environment, Great Lakes, and Energy (EGLE). The objectives of the regulatory mechanism are:

- 1. To regulate the contribution of pollutants to the MS4 by stormwater discharges by any user.
- 2. To prohibit illicit connections and discharges into the MS4.
- 3. To establish authority to investigate, inspect, and monitor suspected illicit discharges.

The Stormwater Program Manager or designee will be provided full access to all the district facilities and properties owned and operated by the district as required to inspect, investigate, and monitor suspected or confirmed illicit discharges or connections to the MS4.

This policy is posted on the district stormwater webpage. Additionally, the district stormwater webpage includes information on how to notify the district if a discharge is witnessed taking place. Finally, the "Stormwater Management – Illicit Discharge Regulatory Policy" will be emailed to district staff members. The "Stormwater Management – Illicit Discharge Regulatory Policy" is available in Appendix B.

Illicit Discharge means any discharge to, or seepage into the separate stormwater drainage system that is not composed entirely of stormwater or uncontaminated groundwater except discharges pursuant to an NPDES permit. Illicit discharges include but are not limited to the following:

- Dumping of motor vehicle fluids
- Improper disposal of household hazardous wastes
- Grass clippings
- Leaf litter
- Pet & other animal wastes
- Unauthorized discharges of sewage
- Industrial wastes
- Restaurant wastes
- Vehicle & equipment wash waters
- Any non-stormwater waste

All activities are documented utilizing the Illicit Discharge/Illegal Dumping Reporting form.

Illicit Connection means a physical connection to the MS4 separate stormwater system that primarily conveys nonstormwater discharges other than uncontaminated groundwater into the MS4 separate storm sewer system; or a physical connection not authorized or permitted by the local authority, where a local authority requires authorization or a permit for physical connections.

Jackson Public Schools' policy is to eliminate all illicit connections or discharges from their facilities and restrict the discharge of polluting substances to the separate storm sewer system. The process to achieve these goals will consist of the inspection and screening of all storm sewer systems and elimination of any improper connection from any Jackson Public Schools facility to any waterway or the municipally owned separate storm sewer system (MS4).

Prohibitions of Illicit Discharges

- 1. Prohibition of Illicit Discharges:
 - a. Jackson Public Schools prohibits the discharge of non-stormwater discharges into the storm drain system, including but not limited to pollutants or waters containing any pollutants.
- 2. The following discharges are NOT prohibited:
 - a. This policy excludes prohibitions from the discharge or flows from firefighting activities to the Jackson Public Schools MS4. Discharge or flows from firefighting activities will be addressed only if they are identified as significant sources of pollutants to surface waters of the state.
 - b. The following activities are not prohibited under this policy unless they are determined to be significant sources of pollutants to surface waters of the state:

- Water line flushing and discharges from potable water sources.
- Landscape irrigation runoff, lawn water runoff, and irrigation waters.
- Diverted stream flows and flows from riparian habitats and wetlands.
- Rising groundwater and springs.
- Uncontaminated groundwater infiltration and seepage.
- Uncontaminated pumped groundwater, except groundwater cleanups specifically authorized by NPDES permits.
- Foundation drains, water from crawl space pumps, footing drains, and basement sump pumps.
- Air conditioning condensation.
- Waters from noncommercial car washing (runoff from family home).
- Street wash water.
- Dechlorinated swimming pool water from single, two, or three family residences. (A swimming pool operated by the permittee shall not be discharged to a separate storm sewer or to surface waters of the state without NPDES permit authorization from the EGLE.)

Identifying a discharge or flow as a significant contributor is completed on a case-by-case basis and is dependent on many factors, including the type of pollutant, amount discharged, and impacts to surface waters of the state.

Prohibition of Illicit Connections

- 1. Improper connections in violation of this regulatory mechanism must be disconnected and redirected.
- 2. Illicit discharge and connections will be eliminated.
- 3. The construction, use, maintenance, or continued existence of illicit connections to the storm drain system is prohibited by Jackson Public Schools. This prohibition expressly includes, without limitation, illicit connections made in the past, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection.

2.3.7 Illicit Discharge Elimination Training

A training program is an important component of an effective IDEP. Training is required for all employees whose job responsibilities involve illicit discharge related activities, or indicate a potential to cause, witness, or report an illicit discharge or connection. <u>Training is discussed in detail in Section 3.0 of this SWMP</u>.

2.3.8 Illicit Discharge Elimination Program Effectiveness

Jackson Public Schools is required to track implementation of the illicit discharge elimination program stormwater management items and evaluate its effectiveness. Documentation of these items includes documentation of actions taken to eliminate illicit discharges. The following are examples of the types of performance measures and effectiveness measures that may be used to evaluate the effectiveness of the IDEP program. The following information will be reviewed annually, and will be used to focus and modify activities to maximize environmental benefits of the plan:

- Verify the distribution of public education posters.
- Number of outfalls/discharge points screened.
- Number of illicit connections found.
- Number of illicit connections eliminated.

- Number and type of discharges that are investigated.
- Actions conducted to follow-up discharges that are identified or reported.
- Number of scheduled clean-outs and routine maintenance work conducted.

The District shall evaluate:

- 1. Evaluate the number of illicit discharges and determine if discharges have decreased throughout the permit cycle.
- 2. Evaluate if the number of reported potential discharges has increased due to improved awareness.
- 3. Evaluate dry weather screening monitoring data to measure changes in water quality.

2.3.9 Illicit Discharge Elimination Program – BMP Table

ВМР	Description of BMP	Timeframe	Measurable Goal	Measure of Assessment	Responsible Party
BMP #2.3.9.1	Provide an up-to-date storm sewer system map. The maps shall identify the storm sewer system, location of outfalls and points of discharge, and names and locations of the surface waters of the state receive the discharge.	Maps Completed in September 2021 Updates Ongoing as Needed throughout	100% of facilities mapped, and 100% of storm sewer system updates mapped.	Maintain facility site maps at the Transportation Facility 1401 N. Brown Street, Jackson, Michigan 49202.	Jackson Public Schools
Facility Storm Sewer System Maps		Weeded throughout Permit Cycle Within 30 days of new outfalls, discharge points, structures, and conveyances.		Update facility map with sewer system updates. Maintain maps for progress report submittal.	Jackson Public Schools
BMP#2.3.9.2 Enforcement	Written policy to enforce elimination of illicit discharges into MS4 owned by the Permittee.	Illicit Discharge Regulatory Policy Developed and Implemented	Illicit Discharge Regulatory Policy developed and implemented.	Copy of the Illicit Discharge Regulatory Policy and distribution to staff.	Jackson Public - Schools
				Copy of policy available on the district stormwater webpage.	
BMP #2.3.9.3 Dry Weather Screening	Dry Weather Screening conducted every 5 years. Dry weather screening will be conducted by personnel trained to recognize all signs of possible illicit discharges.	DWS Scheduled to be completed once during the permit cycle	100% of outfalls and point of discharges inspected and evaluated following a period of 48-72 hours of dry weather. Outfalls/points of discharges re-inspected if necessary.	Maintain dry weather screening inspection logs/reports.	Jackson Public Schools

ВМР	Description of BMP	Timeframe	Measurable Goal	Measure of Assessment	Responsible Party
BMP #2.3.9.4	Eliminate illicit discharges and connections through reporting, routine storm sewer	Ongoing Throughout Permit Cycle	Place "How to spot illicit discharge/ How to Report-Hotline Numbers" posters placed in Receiving Rooms at each Jackson Public Schools facility. Goal is to have one poster at each facility.	Annually verify number of posters in place throughout the district.	Jackson Public Schools
Illicit Discharge Reporting	system inspections and dry weather screening inspections.		Advertise reporting hotline on district webpage.	Track number of calls and document calls onto Illicit Discharge/Illegal Dumping Reporting form. (Appendix B).	
BMP #2.3.9.5 Unauthorized Discharge/ Illicit Discharge Complaint Response	The District will immediately evaluate any potential unauthorized or suspected illicit discharge to the municipal separate storm sewer system (MS4) and perform any necessary notifications and reporting to the applicable agencies (i.e., EGLE, local drain commission, etc.) within the required time period(s). This procedure is outlined in Section 2.3.10 Polluting Materials Emergency and Spill Response Policy &	Suspected discharges will be investigated within 24 hours. Jackson Public Schools will ensure enforcement actions within 7 days. Within 14 days of reported suspected	100% of unauthorized or suspected illicit discharges evaluated (field observation, field screening, and source investigation) and eliminated.	Documentation of relevant field observations, field screening or source investigations.	Jackson Public Schools
BMP #2.3.9.6 Illicit Connections	Procedures. Reroute, repair, or disconnect any illicit connections.	discharge. Within 60 days of identified illicit connection	Take steps to eliminate 100% of identified illicit connections.	Work order, receipt or report detailing the illicit connection correction activities.	Jackson Public Schools
BMP #2.3.9.7 Illicit Discharge Elimination Training	Train staff on the identification and reporting of illicit discharges or improper connections and the cleanup/notification procedures for spills of polluting materials.	Once per permit cycle or during the 1 st year of employment Throughout Permit Cycle	Goal of providing illicit discharge elimination training to all maintenance, transportation, custodial and skilled trade staff who work for Jackson Public Schools. [All Stormwater Training is outlined in Section 3.0 Training]	Copy of sign in sheets and Agenda (if available).	Jackson Public Schools

ВМР	Description of BMP	Timeframe	Measurable Goal	Measure of Assessment	Responsible Party
BMP #2.3.9.8 Notice of Intent to Discharge Tracer Dyes	Maintain approval from the EGLE for authorization to discharge tracer dyes in surface waters per General Rule 97 to conduct source investigations.	As needed Throughout Permit Cycle	EGLE approval to discharge tracer dyes.	Documentation of EGLE approval.	Jackson Public Schools
BMP #2.3.9.9 IDEP program Performance & Effectiveness	Review performance measures to evaluate the effectiveness of the IDEP program. Items include posting of IDEP public education posters, number of outfalls/discharge points screened, number of illicit connections found, number of illicit connections eliminated, number and type of violations investigated, and number of scheduled clean-outs and routine maintenance work conducted.	Annually Throughout Permit Cycle	Annual review of SWMP IDEP program performed. Evaluate reduced illicit discharges, increase reporting, and evaluate dry weather screening data.	Maintain copy of SWMP annual review and evaluation information for progress reporting.	Jackson Public Schools

2.3.10 Polluting Materials Emergency and Spill Response Policy and Procedures

Purpose

This policy and associated procedures have been developed to define appropriate and safe response procedures for spill or accidental releases of hazardous materials or substances at all Jackson Public Schools' facilities.

Policy

Only trained and authorized personnel are permitted to respond to hazardous materials incidents! Employees must be trained in the safe use of chemicals or chemical management prior to working in a lab or cleaning up minor spills. The Stormwater Program Manager will immediately report any release of any polluting materials from the MS4 to surface waters or groundwater of the state, unless a determination is made that the release is not in excess of the threshold reporting quantities in the Part 5 Rules and comply with all Federal, State, and local regulatory requirements for the management and reporting of all hazardous materials and/or waste releases.

If it is determined that the release poses a threat to the safety or the environment outside the facility or in excess of the threshold reporting quantities, the Stormwater Program Manager will report the release immediately or within 24 hours of knowledge of the release to:

- The EGLE Jackson District Office at (517)-780-7960 during regular working hours.
- The 24-hour Michigan Pollution Emergency Alerting System (PEAS) at 1-800-292-4706 after working hours.

Any release of oil (includes gasoline, diesel fuel, used oil and mineral spirits) to navigable waters or adjoining shorelines will be reported to the immediately or within 24 hours of knowledge of the release to:

1. The 24-hour National Response Center (NRC) at 1-800-424-8802

The Stormwater Program Manager will maintain responsibility for monitoring any changes in regulatory requirements regarding hazardous materials and waste spills or accidental releases. This policy will be revised as necessary based upon any changes in the regulatory requirements or internal experiences. All hazardous materials spills or releases will be thoroughly investigated by the Stormwater Program Manager.

Emergency Spill Response Procedures

Each facility having the potential for the release of a hazardous material or substance shall have trained and knowledgeable staff members to respond and/or implement spill response procedures for that facility. Spill containment materials such as absorbent pigs, pads, booms, diking materials, storm drain covers, etc. are to be stored and maintained at all facilities for use by trained employees in the event of a spill or accidental release.

The following general guidelines are to be implemented as applicable in managing spills and accidental releases:

1. Minor Spill or Leak

- Attempt to contain the spill.
- Wear proper Personal Protective Equipment (PPE) while cleaning up the spill/leak.
- Notify supervisor and call Stormwater Program Manager at 517-841-2161.

- 2. Major Spill or Leak
- Call the Stormwater Program Manager immediately at 517-841-2161.
- Do not attempt to clean up the spill yourself.
- Provide clean-up/rescue personnel with appropriate Safety Data Sheets (SDS) and other important information.

Refer to sections **2.3.4 Illicit Discharge Identification & Investigation Procedure – Field Screening & Source Investigation** and **2.3.5 Illicit Discharge/Connection Elimination Procedure** for implementation timeframes.

This guidance has been developed in anticipation of potential releases of hazardous materials and substances. The procedures outlined in this guidance will only be implemented by those persons who have received sufficient training and are competent in the handling of the released material.

As appropriate, illicit discharges or releases of polluting materials will be corrected through administrative measures including employee training, placement of signs or markings, policy revisions, or any other steps necessary to eliminate the continued release of polluting materials to the MS4. The district will conduct follow-up inspections and sampling as needed to ensure that appropriate action has been completed.

2.4 Construction Site Stormwater Runoff Control Program

Jackson Public Schools' goal is to establish procedures for construction stormwater runoff control to meet minimum measure requirements to maximum extent practicable.

Construction refers to actions that result in a disturbance of the land, including clearing, grading, excavating, and other similar activities.

Construction-related activities are activities that support the construction project such as stockpiles, borrow areas, concrete truck washouts, fueling areas, material storage areas and equipment storage areas.

2.4.1 Construction Site Stormwater Management Program Objectives

- A. Process for notify the Part 91 Agency appropriate staff when soil or sediment is discharged to the MS4 from a construction activity.
 - The procedure shall allow for the receipt and consideration of complaints or other information submitted by the public or identified internally as it relates to construction stormwater runoff control.
- B. Procedure for when to notify the EGLE when soil, sediment, or other pollutants are discharged to the MS4.
 - Other pollutants include pesticides, petroleum derivatives, construction chemicals, and solid wastes that may become mobilized when land surfaces are disturbed.
- C. Procedure for ensuring that construction activity one acre or greater in total land disturbance obtains a Part 91 Permit.

2.4.2 Construction Notification Procedure

The EGLE certified construction stormwater operator inspector conducting site inspections will normally detect any soil or sediment entering the MS4.

In the event an inspector identified a discharge during an inspection:

- 1. The inspector shall document all details of the soil erosion and sedimentation control deficiency and report to the Jackson Public Schools Stormwater Manager.
- 2. The Jackson Public Schools Stormwater Manager (or designee) is responsible for assessing any suspected or confirmed discharge and notifying the appropriate agency.
- 3. Jackson Public Schools will notify the local Part 91 agency and EGLE when significant runoff of soil, sediment, or other pollutants such as pesticides, petroleum derivatives, construction chemicals, or solid wastes from the construction site discharges to the MS4 or surface waters of the state within 24 hours of discovery or as otherwise required by the issuing agency.

In the event of a public complaint:

Jackson Public Schools will track the receipt of complaints submitted by the public or noted by staff during regular course of business of soil, sediment, or other pollutants such as pesticides, petroleum derivatives, construction chemicals, and solid wastes are being discharged into the MS4.

The tracking will include:

- Name of person providing the complaint.
- Location (address or nearest cross street).
- Description of follow up (e.g., date referred to the Part 91 enforcing agency).

Jackson Public Schools will notify the Part 91 Agency, when soil, sediment, and other pollutants such as pesticides, petroleum derivatives, construction chemicals, and solid wastes are discharged into MS4.

Jackson Public Schools ensures that construction activity one acre of greater in total earth disturbance with the potential to discharge to the MS4 does obtain a Part 91 Permit and State of Michigan Permit by Rule.

2.4.3 Part 91 Permit

Jackson Public Schools will ensure that any construction activity that result in a land disturbance meeting the following criteria:

- Greater than or equal to one (1) acre, or
- Disturb less than one (1) acre that is part of a common plan of development or sale.

Will obtain a Part 91 Permit through the site plan review process with the appropriate county or municipal permitting agency.

2.4.4 Permit by Rule Compliance

Jackson Public Schools shall comply with the State of Michigan Permit by Rule (Rule 323.2190) for stormwater discharge from construction activity. Sites disturbing one (1) to five (5) acres with a point source discharge to the waters of the state receive automatic storm water coverage upon securing a SESC permit from the appropriate Part 91 recognized County Enforcing Agency, Municipal Enforcing Agency, or Authorized Public Agency (APA) under the authority of Part 91.

1. Construction sites with at least one (1) acre but less than five (5) acres of soil disturbance with a surface water discharge, must obtain a county or municipal SESC permit, and are required to follow the provisions of the Permit by Rule, but do not need to notify the EGLE of the construction activity.

2. Construction sites disturbing over five (5) acres with a point source discharge to the waters of the state must obtain a county or municipal SESC permit and submit a Notice of Coverage (NOC) and other pertinent documents and the appropriate fee to the EGLE.

Requirements of Permit by Rule include, but are not limited to:

- Weekly site inspections conducted by a Certified Construction Stormwater Operator.
- Inspection within 24 hours of a precipitation event that results in a discharge from the site by a Certified Construction Stormwater Operator.

2.4.5 Construction Site Stormwater Management-BMP Table

BMP	Description of BMP	Timeframe	Measurable Goal	Measure of Assessment	Responsible Party
BMP #2.4.5.1 Notification of Deposit during Inspection	Jackson Public Schools will notify the local part 91 agencies or EGLE when runoff from the construction site discharges significant pollutants to the MS4 or surface waters of the state within 24 hours of discovery or as otherwise required by the issuing agency. The Jackson Public Schools Stormwater Manager (or designee) is responsible for assessing any suspected or confirmed discharge and notifying the appropriate agency. (Refer to section 2.4.2)	As necessary Throughout Permit Cycle	100% discharges identified and appropriate agencies notified. Control of potential system failure.	Documentation of Construction Stormwater Operator site inspection.	Jackson Public Schools
	Track complaints submitted by the public or noted by staff during regular course of business of soil, sediment, or other pollutants such as pesticides, petroleum derivatives, construction chemicals, and solid wastes are being discharged into the MS4.			Documentation of public complaint (Name of person providing the complaint, location [address or nearest cross street] description of follow up [e.g., date referred to the Part 91 enforcing agency]).	Jackson Public Schools
BMP #2.4.5.2 Part 91 Permit	Jackson Public Schools will ensure that any construction activity that result in a land disturbance greater than or equal to one (1) acre or disturb less than one (1) acre that is part of a common plan of development or sale will obtain a Part 91 Permit through the site plan review process.	As necessary Throughout Permit Cycle	100% of permits obtained.	Copy of permit and associated soil erosion and sedimentation control plans.	Jackson Public Schools

BMP	Description of BMP	Timeframe	Measurable Goal	Measure of Assessment	Responsible Party
BMP #2.4.5.3 Permit by Rule	Construction sites between (1) acre but and five (5) acres of soil disturbance follow the provisions of the Permit by Rule, but do not need to notify the EGLE of the construction activity.		Goal of 100% of weekly and precipitation event inspection completed by certified Construction Stormwater Operator.	Copy of inspections.	
	Construction sites disturbing over five (5) acres with a point source discharge to the waters of the state must follow provisions of the Permit by Rule and submit a Notice of Coverage (NOC) and other pertinent documents and the appropriate fee to the EGLE.		100% NOC obtained.	Copy of NOC	Jackson Public Schools

2.5 Post Construction Stormwater Controls for New Developments & Redevelopments

Post-construction storm water runoff is the storm water that would flow from a project site to the Municipal Separate Storm Sewer System (MS4) after completion of a development or redevelopment project (not during the project).

A post-construction stormwater runoff program compliance assistance document is available via the internet at https://www.michigan.gov/documents/deq/wrd-storm-MS4-ComplianceAssistance 470350 7.pdf.

2.5.1 Post Construction Stormwater Management Program Objectives

The post-construction stormwater run-off controls are necessary to maintain or restore stable hydrology in receiving waters by limiting surface runoff rates and volumes and reducing pollutant loadings from sites that undergo development or significant redevelopment.

Projects that change the existing footprint (e.g., increase impervious surface) or offer new opportunities for storm water control (e.g., reconstruction to the subbase layer with a change in underdrainage) are considered redevelopment projects.

The objects of this program and associated procedures are to:

- Develop and implement regulatory mechanisms to address post-construction stormwater runoff for new development and redevelopment projects, including preventing or minimizing water quality impacts.
- Develop and implement regulatory mechanisms for projects that disturb one or more acre, including projects less than an acre that are part of a larger common plan of development or sale and discharge into the applicants MS4.
- Ensure post construction controls to minimize water quality impacts by following water quality treatment standards.
- Require that BMPs be designed on a site-specific basis to reduce post-development total suspended solids loading.
- Procedure to meet water quality treatment and channel protection standards of new development or redevelopment projects.
- Address "hot spots."
- Require adequate long-term O&M of BMPs by ordinance or other regulatory means.

2.5.2 Post-Construction Policy and Procedure

The district has developed a "Stormwater Management - Post-Construction Policy & Procedure" to direct compliance with these requirements. The "Stormwater Management - Post-Construction Policy & Procedure" is located in Appendix B.

Development and redevelopment projects on district properties are regulated under and must comply with the Jackson Public Schools individual NPDES permit for stormwater discharges, as issued by the Michigan Department of Environment, Great Lakes, and Energy (EGLE). The Stormwater Management Post-Construction Policy & Procedure has been developed to provide guidance regarding responsibilities and actions to meet the NPDES permit conditions for development and redevelopment projects on Jackson Public Schools properties.

The post-construction plan for stormwater management on regulated sites **must** include:

- A minimum treatment volume standard to address water quality impacts.
- Channel protection criteria to address resource impairment resulting from flow volumes and rates.
- Review sites with known soil and/or groundwater contamination, including potential "hot spots" and evaluate the use of infiltration BMPs to meet water quality treatment and channel protection criteria to ensure that infiltration BMPs do not exacerbate existing conditions. Hot spots include areas with the potential for significant pollutant loading such as vehicle service and maintenance facilities, vehicle equipment cleaning facilities, fleet storage areas for buses, and outdoor liquid container storage.
- Drawings showing the location of stormwater control measures and the storm system.
- Details on the proposed stormwater control measures.
- Operation & Maintenance (O&M) requirements.
- Supporting information:
 - Calculations used for designing all components of the stormwater management systems.
 - Total suspended Solids (TSS) design removal rates and supporting manufacturer documentation, if applicable.
 - o Geotechnical report including soil boring and infiltration test data.

The project team [Architecture, Engineering & Construction, Other Project Manager, Project Developer and/or Contractors] shall develop the post-construction stormwater management plan in accordance with this guideline and the NPDES permit.

The Stormwater Program Manager will administer and enforce the stormwater management program, including maintaining procedures, guidance, information, etc. to aid district staff and contractors in complying with the post-construction requirements for stormwater management.

2.5.3 Water Quality Treatment Standard

Jackson Public Schools goal is to include water quality treatment volume standards for each new construction or redevelopment project where the area of development or redevelopment exceeds one (1) acre. One or more of the following treatment standards will be included as part:

- 1) Treat the first one inch of runoff from the entire site, or
- 2) Treat the runoff generated from ninety percent (90%) of all runoff-producing storms for the project site.

The source of the rainfall data for the water quality treatment standard of requiring the treatment of the runoff generated from the ninety percent (90%) of all runoff-producing storms is:

• The EGLE memo dated March 24, 2006, which is available via the internet at http://www.michigan.gov/documents/deq/wrd-hsu-ninety-percent 557709 7.pdf

Treatment methods shall be designed on a site-specific basis to achieve the following:

- 1. A minimum of eighty percent (80%) removal of total suspended solids (TSS), as compared with uncontrolled runoff, or
- 2. Discharge concentrations of TSS not to exceed 80 milligrams per liter (80mg/L).

A minimum treatment volume standard is not required where site conditions are such that TSS concentrations in storm water discharges will not exceed 80mg/L.

Treatment methods shall be designed on a site-specific basis to reduce the discharge of sedimentation or TSS from the site. Such methods may include:

- 1. Standpipe filters in storm water detention basins
- 2. Sediment filter tanks
- 3. Catch basin sumps
- 4. Aqua-Swirls®
- 5. Treatment trains
- 6. Rain Gardens
- 7. Pervious pavement systems

2.5.4 Channel Protection Performance Standard

Jackson Public Schools understands that channel protection criteria are necessary to maintain post-development stormwater runoff volumes and peak flow rates at or below existing levels for all storms up to the 2-year, 24-hour event. "Existing Levels" means the runoff volume and peak flow rate for the last land use prior to the planned new development or redevelopment. More restrictive channel protection criteria may be utilized on a case-by-case basis, as appropriate.

Rainfall Data

The rainfall data for calculating runoff volume and peak flow rate shall be the Rainfall Frequency Atlas of the Midwest, 1992 [National Oceanic & Atmospheric Administration (NOAA) - Huff & Angel].

2.5.5 Site-Specific Requirements

Because each site has its' own special circumstances and conditions, the following BMPs will be considered as appropriate according to site conditions:

- Reduce runoff from the site to greatest extent possible (provide holding basins, divert water through grassed swales).
- Prevent spills and discharges.
- Control waste such as building materials, concrete washout, chemicals, litter, and sanitary waste.
- Phasing will be considered to limit amount of exposed soils.
- Interim soils stabilization methods are to be considered (temporary seeding, mulching etc.).
- Buffer preservation (avoid exposing soils to property limits).
- Inspection staff will be trained in the proper maintenance and operation of Soil Erosion and Silt Prevention measures.

Construction plans will be reviewed for sites with known soil and/or groundwater contamination, including potential "hot spots" and evaluate the use of infiltration BMPs to meet water quality treatment and channel protection criteria to ensure that infiltration BMPs do not exacerbate existing conditions. Hot spots include areas with the potential for significant pollutant loading such as vehicle service and maintenance facilities, vehicle equipment cleaning facilities, fleet storage areas for buses, and outdoor liquid container storage.

Additional water quality standards or pretreatment measures may be required in addition to those included in the water quality criteria in order to remove potential pollutant loadings from entering either groundwater of surface water systems.

Pretreatment measures include:

Stormwater Hot Spots	Minimum Pre-Treatment Options
Vehicle service and maintenance facilities	 Oil/Water Separators/Hydrodynamic Devices Use of Drip Pans and/or Dry Sweep Material under Vehicles/Equipment Use of Absorbent Devices to Reduce Liquid Releases Spill Prevention Response Program
Fleet storage areas for buses	BMPs that are part of a Stormwater Pollution Prevention Plan (SWPPP)
Vehicle Fueling Stations	 Oil/Water Separators/Hydrodynamic Devices Water Quality Inserts for Inlets Spill Prevention Response Program
Vehicle equipment cleaning facilities	BMPs that are part of a Stormwater Pollution Prevention Plan (SWPPP)
Outdoor liquid container storage	Spill Prevention Response Program

2.5.6 Site Plan Review

This policy is to establish a requirement to submit a site plan for review as required by the EGLE NPDES Stormwater Discharge Permit and ensure that water quality objectives, erosion and sediment control requirements, and BMP maintenance are considered to the maximum extent practicable.

Jackson Public Schools shall evaluate proposed construction activities to determine:

- If the activity meets the criteria of a development or redevelopment project with an earth disturbance greater than or equal to 1 acre, or part of a common plan of development resulting in a development or redevelopment activity greater than or equal to 1 acre in size.
- Does the development or redevelopment project discharge to the waters of the state, or to a county, city, or township MS4.

If the development or redevelopment project discharges directly to waters of the state, Jackson Public Schools shall comply with the post-construction standards outlined in this SWMP.

If the development or redevelopment project discharges to a regulated county, city, or township MS4, Jackson Public Schools shall submit the site plan for review and approval. Site plan approval by the county, city, or township of an equivalent post-construction standard ensures acceptable compliance with the <DISTRICT> NPDES MS4 Stormwater Discharge Permit. Jackson Public Schools shall obtain and maintain a copy of the site plan approval document.

If the development or redevelopment project discharges to a county, city, or township MS4 that is not regulated or requires site plan review, Jackson Public Schools shall comply with the post-construction standards outlined in this SWMP.

2.5.7 Long-Term Operation & Maintenance of Stormwater Controls

Ongoing operation and maintenance of the stormwater BMPs is a critical component of the Stormwater Management Plan. All structural and vegetative stormwater control measures installed as a requirement under this section of the permit shall include guidance for maintaining maximum design performance through long-term operation and maintenance.

- Update and revise the stormwater structural controls on facility site diagrams as identified during scheduled inspections or within 30 days following the completion of a new facility or reconstruction/redevelopment site project.
- Follow long-term guidance for inspection and operation to maintain maximum design performance.
- Stormwater runoff facilities shall be maintained in good condition, in accordance with the approved storm water plan.

Trained staff or certified contractors will conduct routine inspection of all identified structural controls and complete maintenance, repair, or replacement, as necessary.

2.5.8 Post Construction Stormwater Management-BMP Table

вмр	Description of BMP	Timeframe	Measurable Goal	Measure of Assessment	Responsible Party
BMP #2.5.8.1 Regulatory Mechanism	Develop and implement regulatory mechanisms to address post-construction stormwater runoff for new development and redevelopment projects, including preventing or minimizing water quality impact.	Post-Construction Policy & Procedure Developed & Implemented	Post-Construction Policy & Procedure adopted by the district.	Copy of the Post-Construction Policy and Procedure.	Jackson Public Schools
	mechanisms for projects that disturb one or more acre, including projects less than an acre that are part of a larger common plan of development or sale and discharge into the applicants MS4.				
BMP #2.5.8.2 Post Construction Standards	Ensure post-construction channel protection standards and water quality treatment standards are met.	As necessary Throughout Permit Cycle	All applicable site plans are reviewed by EGLE.	Copy of site plan.	Jackson Public Schools
BMP #2.5.8.3 Site Specific	Jackson Public Schools will review construction plans for sites with known soil and/or groundwater contamination, including potential "hot spots" and evaluate the use of infiltration BMPs to meet water quality treatment and channel protection criteria.	As necessary Throughout Permit Cycle	Reduce or eliminate discharge of pollutants during construction on contaminated sites.	Documentation of additional stormwater controls.	Jackson Public Schools

ВМР	Description of BMP	Timeframe	Measurable Goal	Measure of Assessment	Responsible Party
	Prepare and submit a written application,		If the development or redevelopment project discharges to a regulated county, city, or township MS4, the district shall submit the site plan for review and approval. Site plan approval by the county, city, or township of an equivalent post- construction standard ensures acceptable compliance with the districts NPDES MS4 Stormwater Discharge Permit.	Obtain and maintain a copy of the site plan approval document and copy of calculations.	
BMP #2.5.8.4 Site Plan Review	Site Plan water management systems for all new construction or redevelopment projects	As necessary Throughout Permit Cycle	If the development or redevelopment project discharges directly to the waters of the state, the district shall comply with the post-construction standards outlined in this SWMP. If the development or redevelopment project discharges to a county, city, or township MS4 that is not regulated or requires site plan review, Jackson Public Schools shall comply with the post- construction standards outlined in this SWMP.	Copy of calculations.	Jackson Public Schools
BMP #2.5.8.5 Long-Term Operation & Maintenance of Stormwater Controls	All structural and vegetative stormwater control measures installed as a requirement under this section of the permit shall include guidance for maintaining maximum design performance through long-term operation and maintenance.	Within 30 days following the completion a new facility or reconstruction/redeve lopment site project. Throughout Permit Cycle	Follow long-term guidance for inspection and operation to maintain maximum design performance. Stormwater runoff facilities shall be maintained in good condition, in accordance with the approved storm water plan.	All storm sewer site maps updated. Maintain all inspection, maintenance, and repair reports conducted by staff or contractors.	Jackson Public Schools

2.6 Pollution Prevention & Good Housekeeping Program

Develop, implement, and ensure compliance through a program of operation & maintenance of BMPs, with the ultimate goal of preventing or reducing pollutant runoff to the maximum extent practicable from operation that discharge stormwater to surface waters of the state.

2.6.1 Pollution Prevention & Good Housekeeping Program Objectives

- a. Maintain an up-to-date inventory of owned facilities and stormwater structural controls.
- b. Procedure for updating and revising inventory of stormwater structural controls.
- c. Procedure for assessing each facility for the potential to discharge pollutants.
- d. Develop an SOP (SWPPP) for all facilities with a high potential for pollutant runoff.
- e. Procedure identifying BMPs currently implemented or to be implemented to prevent or reduce pollutant runoff at each facility with medium and lower potential to discharge.
- f. Procedure for prioritizing of catch basins/manholes for maintenance and cleaning.
- g. Schedule for routine catch basin/manhole inspection, maintenance, and cleaning.
- h. Provide the geographic location of stormwater structures.
- i. Procedure for dewatering, storage and disposal of materials extracted from storm sewer cleaning.
- j. Procedure for inspecting and maintaining storm water controls.
- k. Procedure for new structural controls to be designed and implemented in accordance with postconstruction stormwater runoff control performance standards.
- I. Best management practices for operation and maintenance activities.
- m. Procedure for street sweeping.
- n. Procedure for pesticide application.
- o. Training.
- p. Contractor requirements and oversight.

It is the ultimate goal of Jackson Public Schools to prevent and reduce pollutant/contaminant runoff from Jackson Public Schools facilities to the maximum extent practicable. All BMPs are implemented at all low, medium, and high priority facilities.

2.6.2 Structural Control Inventory & Schedule Table

No prioritization will be needed, as all structures are to be inspected and maintained equally. All structural controls will have routine inspection, maintenance schedules, and long-term procedures which adequately control, to the maximum extent practicable, pollution removal and control. Structural control effectiveness will be determined based on the results of these inspections and repaired, upgraded, or replaced as indicated.

The structural Control Inventory and Schedule Table for each property are in Appendix E.

2.6.3 Facility Assessment & Prioritization

Jackson Public Schools has identified all applicant owned facilities with a discharge of stormwater to surface waters of the state, and during mapping of each facility, inventoried the number of stormwater structural controls (i.e., catch basins, detention basins, etc.) at each site. Each location was assessed to determine high, medium, and low potential to discharge pollutants to surface waters of the state.

Jackson Public Schools considered the following when assessing each facility:

• Absence of any factors,

- Presence of urban pollutants stored at the site (i.e., sediment, nutrients, metals, hydrocarbons, pesticides, fertilizers, herbicides, chlorides, trash, bacteria, or other site-specific pollutants,
- Identification of improperly stored materials,
- Potential for polluting activities to be conducted outside (i.e., vehicle washing),
- Proximity to water bodies,
- Poor housekeeping practices,
- Discharge of pollutants of concern to impaired waters.

For facilities that have a high potential to discharge pollutants to surface waters of the state, a Stormwater Pollution Prevention Plan (SWPPP) and/or Pollution Incident Prevention Plan (PIPP) for salt storage facilities will continue to be implemented.

BMPs currently implemented by Jackson Public Schools at facilities with medium and lower potential for the discharge of pollutants to surface waters of the state include:

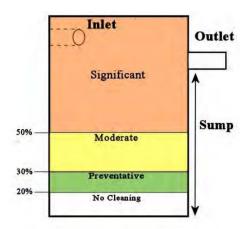
- 1. Good housekeeping practices,
- 2. Employee training,
- 3. Routine visual inspections,
- 4. Spill prevention and response.

This inventory will be updated as facilities and structural stormwater controls are added, removed, or no longer owned or operated by the applicant following routine inspections or following new construction or redevelopment projects. Priority level assessments will be revised within 30 days following the completion of a new facility or reconstruction/redevelopment.

2.6.4 Storm Sewer Structure Controls Inspection & Maintenance Policy & Procedure

- 1. Develop a schedule for inspecting and maintaining catch basins and stormwater controls at each facility, for the reduction of pollutant runoff. A schedule is included in Appendix E.
- 2. Visually inspect all stormwater controls identified on facility maps. Inspection includes:
 - a. Structural integrity of the structure.
 - Areas of significant cracking or sinkholes.
 - b. Sediment build-up.
 - Areas with high amounts of build-up sediment. A build-up of accumulated solid material that is greater than or equal to the one-third guideline established by the EPA or between 30 and 50% of the total sump depth, as established by the EGLE³.

³ Michigan Department of Environment, Great Lakes, and Energy EGLE NPS BMP Manual – Catch Basins



- c. Color, odor, sheen, and flow.
- d. Overall functionality and presence of erosion.
- e. Pond evaluation.
- 3. Note inspection information on the inspection form. A copy of the inspection form "Structural BMP Table" is located in Appendix D.
- 4. When inspecting stormwater controls, review the site for non-structural BMPs currently implemented to prevent or reduce pollutant runoff at each facility. BMPs include:
 - a. Review of "No Dumping" stencils at storm drains.
 - b. Review of catch basins/manholes cleaned.
 - c. Dumpster good housekeeping practices.
 - d. Garden, green space and signage inventories.
 - e. "SEMCOG" poster placement at facilities.
 - f. Illicit discharge reporting numbers poster placement at facilities.
 - g. "How to spot illicit discharge/ How to Report-Hotline Numbers" poster placement at facilities.
 - h. Spill kit availability at facilities.
- 5. Following the inspection, the stormwater controls will be prioritized for cleaning and maintenance in a timely manner. Prioritize locations based on the following:
 - Drainage structures that are designated as consistently generating the highest volumes of trash and/or debris.
 - Areas with high amounts of build-up sediment. Refer to number 2 (b) above.
 - Areas of significant erosion.
 - Areas of significant cracking or sinkholes.
- 6. Once the inspection is complete, the stormwater manager or designated person will review the report and determine if a work order or other item is needed to work with relevant departments or contractors to fix any problems.
- 7. If an illicit discharge is suspected, follow the procedure outlined in <u>Section 2.3 Illicit Discharge Elimination</u> <u>Program.</u>
- 8. Retain inspection forms for each stormwater structural control inspected.
- 9. Retain documentation regarding the scheduling or completion of the repair/maintenance if completed.
- 10. Debris and maintenance waste removed as part of the maintenance and/or repairs shall be disposed of in accordance with the <u>Structural BMP Operation & Maintenance Waste Disposal procedures.</u>

Furthermore, staff members conducting maintenance and grounds activities are provided IDEP and pollution prevention/good housekeeping training. All structural controls will have routine inspection, maintenance schedules, and long-term procedures which adequately control, to the maximum extent practicable, pollution removal and

control. Structural control effectiveness will be determined based on the results of these inspections and repaired, upgraded, or replaced as indicated. This procedure will be reviewed on an annual basis and updated as needed or 30 days following the implementation of a new stormwater structural control.

2.6.5 Structural BMP Operation & Maintenance Waste Disposal Procedures

Waste materials generated from operation, maintenance, and cleaning activities associated with storm sewer systems have typically been discharged back into the storm sewer system. This type of discharge is unauthorized per Part 31, Water Resources Protection (Part 31) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA) and is therefore illegal. The combined solid and liquid waste stream (solid/liquid waste) from cleaning storm sewer systems is legally defined as "Liquid Industrial By-products" pursuant to Part 121, Liquid Industrial By-products (Part 121) of NREPA.

Jackson Public Schools will ensure that all waste materials generated during operation and maintenance of structural stormwater controls are properly characterized, transported, and disposed as required under State of Michigan PA 451 Part 111 (hazardous wastes), Part 121 (liquid industrial by-products), and Part 115 (solid wastes). At a minimum, the following procedures will be implemented for wastes generated from cleaning or maintaining storm sewer structural controls.

Waste Disposal Methods for Non-Contaminated Materials

Non-contaminated waste materials generated during cleaning or maintenance of storm sewer structures will be properly disposed using one of the following methods:

- Have the waste transported to drying beds to separate the solid/liquid waste. This is usually performed at a publicly owned treatment plant or at a privately-owned permitted facility where the liquid portion of the waste stream is separated from the solids and treated prior to discharge. Once dry, the solids should be disposed in a licensed solid waste landfill in accordance with Part 115 of PA 451 (NREPA).
- 2. Request permission from the local wastewater treatment plant operator to discharge the combined solid/liquid waste into the sanitary system. Most treatment plants will require pre-treatment prior to discharge. All applicable local ordinance provisions must be followed.
- 3. When conducting catch basin maintenance activities where the above options are not available, the following methods can be used after the water in the sump is confirmed to be non-contaminated:
 - Conduct visual inspection to ensure the water in the sump has not been contaminated. If
 necessary, collect a grab sample of the water and look for signs of contamination such as visible
 sheen, discoloration, obvious odor, etc. If contamination is expected based on visual inspection, a
 grab sample should be collected and analyzed before handling the materials and generating waste.
 While waiting for sample analysis, efforts should be taken to prevent stormwater from entering
 the storm sewer system.
 - Using a sump pump, or any other pumping mechanism, remove the majority of water in the sump of the basin without disturbing the solid material below. Do not use pumps connected to the vacuum truck's holding tank.
 - The clear water may then be directly discharged to one of the following:
 - o Municipal sanitary sewer system (with prior approval from local sewer authority).
 - Application to the ground adjacent to the catch basin may be allowed on a site-specific basis. The EGLE Water Resources Division (WRD) Groundwater Discharge Program would need to be contacted to determine if application to the ground adjacent to the catch basin would be allowed and to complete the necessary requirements for that process.

• The remaining liquid/solid in the sump will be collected with a vacuum truck and disposed of offsite in accordance with Part 115 of PA451 (NREPA) or treated as Liquid Industrial By-Products under Part 121.

Jackson Public Schools does not currently own or operate storm sewer cleaning or transportation equipment. Jackson Public Schools is responsible for meeting the liquid industrial by-products generator requirements under Part 121, even if the catch basins are cleaned out by a private contractor. If Jackson Public Schools contracts with a private contractor to transport liquids generated from cleaning of catch basins or other structures, that contractor must be registered and permitted to transport liquid industrial by-products under the provisions of the Hazardous Materials Transportation Act, 1998 PA 138, as amended.

Waste Disposal Methods for Contaminated Materials

Waste materials generated during operation and maintenance of storm sewer systems found or suspected to be contaminated with pollutants or hazardous substances will be characterized, packaged, marked, labeled, stored, transported, and disposed as a liquid industrial by-product under Part 121 or Part 115 of PA 451 (NREPA).

2.6.6 Pollution Prevention/Good Housekeeping – Municipal Operations & Maintenance Activities

Jackson Public Schools recognizes the importance of reducing pollutant runoff from maintenance activities. The following procedure will include an assessment of the potential activities for the potential to discharge pollutants. The assessment shall identify the pollutants that could be discharged from the applicable operation and maintenance activity and the BMPs implemented or to be implemented to prevent or reduce pollutant runoff.

PROCEDURE

Applicable operations and maintenance activities include parking lot and sidewalk maintenance, cold weather operations, vehicle washing, maintenance of vehicles, land disturbance and landscape. Bridge maintenance, right-of-way maintenance and unpaved road maintenance do not apply to Jackson Public Schools.

Roadways/Parking Lots

Maintenance: Pothole, sidewalk, curb, and gutter repair.

Possible Pollutants: Fuel, oil, sediment, concrete.

BMPs to address Pollutants:

- 1. Contractors and in-house staff contracted to complete these jobs are informed of stormwater management practices to reduce pollution in stormwater.
- 2. Avoid mixing excess amounts of fresh concrete or cement.
- 3. Never dispose of washout into the street, storm drains, ditches, or creeks.
- 4. Stencil storm drains to prevent disposal of wash water.
- 5. Schedule patching, resurfacing and surface sealing during dry weather.
- 6. If it rains unexpectedly, take appropriate action to prevent pollution of stormwater runoff (e.g., divert runoff around work areas, cover materials).
- 7. Maintain pollution prevention/good housekeeping practices, which is to remove stockpiles (asphalt materials, sand, etc.) by the end of the day to a covered location. Alternatively, cover the piles if they cannot be moved.

<u>Process for updating assessment</u>: Contractor or project is assessed on an ongoing basis, and problems are addressed when found.

Cold Weather Operations

Maintenance: Plowing, sanding, deicing, snow pile disposal.

Possible Pollutants: Sodium, magnesium, calcium, potassium, chloride, turbidity.

BMPs to address Pollutants:

- 1. Keep all deicing material covered or in waterproof containers.
- 2. Prevent deicer drainage to storm sewers.
- 3. Mechanical removal of as much snow or ice as possible prior to applying deicing chemicals.
- 4. Proper salt storage management.
- 5. Maintain application equipment in good working condition.

<u>Process for updating assessment</u>: BMPs will be assessed for effectiveness within 30 days following their addition or removal.

Vehicle Washing

Maintenance: Washing of buses and maintenance equipment.

Possible Pollutants: Petroleum based wastes, metals, and nutrients.

BMPs to address Pollutants:

- 1. Vehicle washing can be performed at a commercial auto wash facility.
- 2. Alternatively, rinse grass from lawn care equipment on permeable (grassed) areas.
- 3. School car wash fundraising events will not be permitted on school grounds.

<u>Process for updating assessment</u>: BMPs will be assessed for effectiveness within 30 days following their addition or removal.

Vehicle Maintenance

Possible Pollutants: Petroleum based wastes, metals, and nutrients.

BMPs to address Pollutants:

- 1. All vehicle or equipment maintenance will take place inside or away from storm drains where drains connecting to the sanitary system can receive all wastes.
- 2. Any floor drain suspected to drain to the stormwater system will be dye traced as needed
- 3. Recycle used motor oil, diesel oil, other vehicle fluids, and vehicle parts whenever possible.

<u>Process for updating assessment</u>: BMPs will be assessed for effectiveness within 30 days following their addition or removal.

Landscaping

Possible Pollutants: Wood chips, sediment, sand, and compost.

BMPs to address Pollutants:

- 1. Place temporary stockpiled material away from storm drains, and berm or cover stockpiles to prevent material releases into the storm drain. Alternatively, place stockpiles on permeable (grassed) areas.
- 2. Proper Storage, handling, and use of pesticides, herbicides, and fertilizers.

<u>Process for updating assessment</u>: BMPs will be assessed for effectiveness within 30 days following their addition or removal.

Land Disturbance

Possible Pollutants: Sediment runoff.

BMPs to address Pollutants:

- 1. Plan land clearing so soil is not exposed for long periods of time.
- 2. Place temporary stockpiled material away from storm drains, and berm or cover stockpiles to prevent material releases into the storm drain.
- 3. Protect against sediment flowing into drains.
- 4. Install sediment barriers.

<u>Process for updating assessment</u>: BMPs will be assessed for effectiveness within 30 days following their addition or removal.

ASSESSMENT

Pollution prevention inspections ensure that these BMPs are carried out properly. Any issues identified during the inspections will be reviewed and addressed by the Stormwater Manager.

2.6.7 Street Sweeping Procedure, Prioritization & Schedule

PRIORITIZATION

The EGLE Stormwater Discharge Permit requires a procedure for prioritizing owned streets, parking lots, and other impervious infrastructure for street sweeping based on the potential to discharge pollutants. Jackson Public Schools evaluated each facility for the presence of the following factors:

- Potential for polluting activities to be conducted outside
- Proximity to water bodies
- Traffic volume
- Land use
- Absence of any factors

PROCEDURE

Jackson Public Schools does not own or operate sweeping equipment. However, Jackson Public Schools will be proactive and undertake the following activities to reduce the potential to discharge pollutants to surface waters of the state from parking lots and other impervious infrastructures.

- 1. Conduct seasonal efforts to remove leaves.
- 2. Inspect parking lot and street areas.
- 3. Conduct hand sweeping of debris to prevent accumulated wastes in the spring and the fall.
- 4. Waste disposal areas will be kept free of litter and debris.
- Analyze sediment, removed from an inlet cleaning if it is suspected of being contaminated with a hazardous material, prior to disposal. Sediment or materials determined to be hazardous waste will be disposed of in accordance with the <u>Structural BMP Operation & Maintenance Waste Disposal</u> procedures.
- 6. Contract out street cleaning when appropriate.

This prioritization will be updated as facilities and structural stormwater controls are added, removed, or no longer owned or operated by the applicant following routine inspections, or as traffic volume, land use or sediment and trash accumulation increases.

PRIORITIZATION LEVELS & SCHEDULE

All low, medium, and high prioritized parking lots and streets are inspected on the same schedule in an effort to reduce pollutants.

Facility Name	Priority Level of Potential Discharge* (High, Med, Low)	Street Sweeping Schedule
Hunt Elementary School/Educational Service Center/Transportation Facility Complex	High	Monthly Inspections, Hand Sweep as Needed
Jackson High School/Administration Building Complex	Medium	Hand Sweeping, Spring and Fall
Middle School at Parkside	Medium	Hand Sweeping, Spring and Fall
Cascades School	Low	Hand Sweeping, Spring and Fall
Dibble Elementary School	Low	Hand Sweeping, Spring and Fall
John R. Lewis Elementary School	Low	Hand Sweeping, Spring and Fall
Northeast Elementary School	Low	Hand Sweeping, Spring and Fall
JPS Montessori Center	Low	Hand Sweeping, Spring and Fall
Sharp Park Academy	Low	Hand Sweeping, Spring and Fall

*If required, following inspections indicating higher traffic volume, land use or sediment and trash accumulation at all low, medium, and high prioritized parking lots and streets, the District shall contract a commercial street sweeping company.

DISPOSAL

If a commercial street sweeper is contracted to clean a parking lot and street areas for Jackson Public Schools, the street sweeping activities are subject to the solid waste requirements. Solid waste must be managed under Part 115 requirements. Dispose of solid waste in a licensed landfill. The contractor hired to do the street sweeping is responsible for proper disposal of the waste material. The contracted sweeping will not be completed when streets are wet, so dewatering of the collected debris will not be required.

2.6.8 Managing Vegetated Properties

Jackson Public Schools has established this policy to prevent or reduce pollutant runoff from vegetated land:

- Jackson Public Schools requires all contracted personnel who participate in the application of pesticides, to will be trained and licensed by the State of Michigan under the Commercial Pesticide Application Certification Program for relevant categories as applicable, to prevent or reduce pollutant runoff from vegetated land.
- 2. Whenever practicable, an integrated pest management technique will be implemented.

2.6.9 Contractor Requirements & Oversight

Jackson Public Schools requires contractors to comply with pollution prevention and good housekeeping BMPs. Jackson Public Schools will perform the following activities for applicable contractors and projects to comply with all pollution prevention and good housekeeping BMPs as appropriate and comply with pollution as well as provide oversight to ensure compliance:

- Contractor Notification
- Contractor Training
- Pre-project Meeting/Review
- Periodic Inspections

Prior to conducting work, contractors shall be provided a "Stormwater Contractor Oversight Record" form. This will allow the district to review stormwater compliance with contractors hired to perform municipal operation and maintenance activities and to obtain signatures. The "Stormwater Contractor Oversight Record" form is located in Appendix F.

2.6.10 Pollution Prevention/Good House Keeping Training

A training program is an important component to effective pollution prevention. Training is required for all employees whose job responsibilities involve municipal or maintenance activities. <u>Training is discussed in detail in Section 3.0 of this SWMP.</u>

2.6.11 Pollution Prevention/Good Housekeeping –BMP Table

BMP	Description of BMP	Timeframe	Measurable Goal	Measure of Assessment	Responsible Party
BMP #2.6.11.1 Structural Control Inventory	Provide an up-to-date inventory of the number of stormwater structural controls for each facility's (i.e., catch basins, detention ponds). Update facilities potential to discharge pollutants (high, medium, low) following the update.	Updated as needed within 30 days following the completion of a new facility or development/ redevelopment. Ongoing Throughout Permit Cycle	100% of stormwater structural controls inventoried.	Maintain list of inventories and potential to discharge priority level. Submit updated list with progress report, noting if priority levels have changed.	Jackson Public Schools
BMP #2.6.11.2 SWPPP development & implementation (SOP)	Develop a "Stormwater Pollution Prevention Plan (SWPPP)" for maintenance, transportation, and storage facilities/Implement policies & procedures.	Developed & Implemented Ongoing Throughout Permit Cycle	SWPPP completed and 100% of inspections implemented.	Copy of SWPPP and copy of inspections.	Jackson Public Schools
BMP #2.6.11.3 Stormwater Structural Control InspectionS	Visually inspect stormwater controls identified on facility maps.	Annually Throughout Permit Cycle	Routine schedule implemented and inspections reviewed by stormwater manager.	Maintain inspection forms/reports.	Jackson Public Schools
BMP #2.6.11.4 Review for BMP's Implemented	While inspecting stormwater controls, review the site for BMPs currently implemented to prevent or reduce pollutant runoff at each facility, such as storm drain stencils, garden areas, areas cleaned, areas repaired, SEMCOG poster placement, Illicit discharge education posters, and spill kits.	Annually Throughout Permit Cycle	Annual inspections completed and reviewed by stormwater manager.	Documentation of inspection findings (number of posters, number of spill kits, inventory of gardens, pictures of stencils, pictures of spill kits).	Jackson Public Schools

BMP	Description of BMP	Timeframe	Measurable Goal	Measure of Assessment	Responsible Party
BMP #2.6.11.5 Prioritization of Storm Sewer Locations for Maintenance & Cleaning	Following the inspection, the stormwater controls will be prioritized for cleaning and maintenance. Prioritize locations based on: (1) drainage structures that are designated as consistently generating the highest volumes of trash and/or debris, (2) areas with high amounts of build-up sediment, (3) areas of significant cracking or sinkholes.	Annually Throughout Permit Cycle	Prioritization locations identified.	Copy of prioritization.	Jackson Public Schools
BMP #2.6.11.6 Cleaning & Maintenance (Catch Basin/ Manhole Cleaning)	Jackson Public Schools will ensure that cleaning of the catch basins/manholes occur, and all waste materials generated during operation and maintenance of structural stormwater controls are properly characterized, transported, and disposed as required under State of Michigan PA 451 Part 111 (hazardous wastes), Part 121 (Liquid Industrial By-Products), and Part 115 (solid wastes).	Once per permit cycle Or More often if prioritized due to a build-up of accumulated solid material that is greater than or equal to the one- third guideline outlined in the Storm Sewer Structure Controls Inspection & Maintenance Policy & Procedure	Cleaning is completed once per permit cycle or more often if build-up of accumulated solid material reaches the action level per the procedure in section 2.6.4. All waste disposed of as required.	Copies of Waste Manifests.	Jackson Public Schools
BMP #2.6.11.7 Roadways & Parking Lots	Storm drains stenciled to prevent disposal of wash water into storm drains.	As needed Throughout Permit Cycle	Storm drain stencils inspected and maintained as needed.	Copy of work order. Photos of stenciling.	Jackson Public Schools
BMP #2.6.11.8 Cold Weather Operations	Proper salt storage management. Maintain storage bags and equipment in good working condition.	Ongoing Throughout Permit Cycle	Continue proper salt storage and management as previously implemented.	Copy of SWPPP comprehensive inspection report.	Jackson Public Schools

ВМР	Description of BMP	Timeframe	Measurable Goal	Measure of Assessment	Responsible Party	
	Vehicle washing will be performed at a commercial auto wash facility.		100 % of applicable staff trained on were to wash vehicles.	Copy of sign-in sheets and Agenda (if available).		
BMP #2.6.11.9 Vehicle Washing	Alternatively, rinse grass from lawn care equipment on permeable (grassed) areas.	Ongoing Throughout Permit Cycle	100 % of applicable staff trained on were to wash vehicles.	Copy of sign-in sheets and Agenda (if available).	Jackson Public Schools	
	School car wash fundraising events will not be permitted on school grounds.		Notice sent to staff regarding policy.	Copy of e-mail or policy.		
	Any floor drains suspected to drain to the stormwater system will be dye traced as needed.	Throughout Permit Cycle	100% of floor drains inspected.	Copy of inspection report.		
BMP #2.6.11.10 Vehicle Maintenance	Recycle used motor oil, diesel oil, other vehicle fluids, and vehicle parts whenever possible.	As needed Throughout Permit Cycle	Reduction in amount of disposed material and amount of material shipped for off-site disposal.	Copy of invoices or shipping papers.	Jackson Public Schools	
BMP #2.6.11.11 Land Disturbance	Place temporary stockpiled material away from storm drains, and berm or cover stockpiles to prevent material releases into the storm drain. Protect against sediment flowing into drains.	As needed Throughout Permit Cycle	100 % of applicable staff trained.	Copy of sign-in sheets and Agenda (if available).	Jackson Public Schools	

ВМР	Description of BMP	Timeframe	Measurable Goal	Measure of Assessment	Responsible Party
BMP #2.6.11.12	Conduct hand sweeping in the parking lots/roadways in the spring and fall.	Throughout Permit Cycle		Copy of work order or schedule.	Jackson Public
Street Sweeping	Street sweeping conducted by a professional sweeping company.	As needed Throughout Permit Cycle	Inspections completed.	Copy of invoice or disposal documentation.	Schools
BMP #2.6.11.13 Vegetated Properties (Pesticides)	Jackson Public Schools requires all contracted personnel who participate in the application of pesticides will be trained and licensed by the State of Michigan under the Commercial Pesticide Application Certification Program for relevant categories as applicable, to prevent or reduce pollutant runoff from vegetated land.	Ongoing Throughout Permit Cycle	Application of pesticides will only be completed by trained and licensed applicators.	Documentation of in-house staff license or copy of contractor receipt.	Jackson Public Schools
BMP #2.6.11.14 Contractor Oversight	Jackson Public Schools requires contractors to comply with pollution prevention and good housekeeping BMPs. Jackson Public Schools will complete contractor notification, pre-project meeting and periodic inspections to provide oversight to ensure compliance.	As needed Throughout Permit Cycle	Contractors trained and informed of pollution prevention and good housekeeping techniques.	Copy of sign-in sheets, pre- project meeting notes or inspections.	Jackson Public Schools & Contractors/ Vendors
	Prior to conducting work, contractors shall be provided a "Stormwater Contractor Oversight Record" form.				

BMP	Description of BMP	Timeframe	Measurable Goal	Measure of Assessment	Responsible Party
BMP #2.6.12.15 Training	Pollution prevention and good housekeeping training.	Once per permit cycle or during the 1 st year of employment Throughout Permit Cycle	Goal of providing training to maintenance staff who work for Jackson Public Schools. [All Stormwater Training is outlined in Section 3.0 Training]	Copy of sign-in sheets and Agenda (if available).	Jackson Public Schools
BMP #2.6.12.16 Pollution Prevention & Good Housekeeping Activities Review	Summary of annual activities for the "Pollution Prevention and Good Housekeeping."	Annually Throughout Permit Cycle	Annual review of SWMP performed. Maintain copy of SWMP annual review. Determine the level of district involvement and identify areas of improvement.	Maintain copy of SWMP annual review and evaluation information for progress reporting.	Jackson Public Schools

3.0 Training

Jackson Public Schools will provide education and training for applicable employees and contractors using a variety of methods depending on their specific job function. At a minimum, all applicable Jackson Public Schools employees will be encouraged to have general awareness training on the topics included in the PEP. All applicable Jackson Public Schools employees will be encouraged to attend or otherwise obtain general awareness training at least once per permit cycle or during the 1st year of employment.

Jackson Public Schools has implemented a comprehensive staff training program based on each employee's participation and responsibilities under this program. The employee training program is categorized in three (3) separate levels summarized as follows:

LEVEL I TRAINING-General Awareness Training

Level I training is encouraged for all district employees, parents, and students. General Awareness training is provided in the form of an 11-minute video produced by Arch Environmental Group titled, **"When it Rains, It Drains...The Stormwater Question".** This video is also available on the stormwater webpage.

LEVEL II TRAINING-General Awareness, Pollution Prevention & Good Housekeeping, and Illicit Discharge Reporting

Level II training is required for all employees whose job responsibilities involve illicit discharge related activities, or indicate a potential to cause, witness, or report and illicit discharge or connection. This training includes the previously described video as well as a review of the districts Stormwater Management Program Plan and instruction on identification and notification of illicit discharges or connections. This training is provided to applicable transportation, maintenance, custodial, and food service employees.

LEVEL III TRAINING-Maintenance and Storage Facility Stormwater Pollution Prevention Plans, Lawn Maintenance, and Structural Control Inspection, Maintenance, and Repair Training

Level III training is provided in the form of videos, PowerPoint presentations, and hands-on training. This training is provided to district supervisors, maintenance, and lawn service staff.

LEVEL IV (CONTRACTORS) - Contractor Training/Oversight

Contractors employed by Jackson Public Schools to conduct activities with a potential to impact water quality. Prior to conducting work, contractors shall be provided a "Stormwater Contractor Oversight Record" form.

3.1 Training Table

BMP	Description	Measurable Goal	Target Audience	Timeframe
I General Awareness Training	Encourage teachers, administrative and support staff to watch the General Awareness Stormwater Video "When it Rains it Drains."	Maintain on district website and Record attendance with sign-in sheets. Jackson Public Schools will retain records of trainings for future review regarding SWMP.	Teachers, administrative and support staff.	Ongoing Throughout Permit Cycle
II IDEP & PPGH Training	General Awareness, Pollution Prevention & Good Housekeeping, and Illicit Discharge Elimination Program	Record attendance with sign-in sheets for each training session. Jackson Public Schools will retain records of trainings for future review regarding SWMP.	In-house custodial, maintenance, transportation, and food service employees.	Required once during permit cycle current employees and during the 1 st year of employment for new employees. Throughout Permit Cycle
III Routine Storm Sewer Inspection Training	Train appropriate employees how to conduct a storm sewer system inspection.	Record attendance with sign-in sheets for each training session. Jackson Public Schools will retain records of trainings for future review regarding SWMP.	District supervisors, in- house maintenance, and lawn service staff.	As Needed Throughout Permit Cycle
IV Contractor Training/ Oversight	Stormwater specific training for on-site contractors.	Utilize a "Stormwater Contractor Oversight Record" form to review stormwater compliance with contractors hired to perform municipal operation and maintenance activities and to obtain signatures. Obtain records of training for future review of the SWMP.	Contractors employed by Jackson Public Schools to conduct activities with a potential to impact water quality.	Required at the time of employment. Throughout Permit Cycle

4.0 Total Maximum Daily Load (TMDL) Restrictions

4.1 What are TMDLs

When a lake or stream fails to meet federal water quality standards, the Clean Water Act requires that a "Total Maximum Daily Load (TMDL)" limit be developed. Studies are completed to determine the sources impacting the water body and to develop goals so that the water body can meet the applicable standards.

A TMDL describes the process used to determine how much of a particular pollutant a lake or stream can assimilate and sets pollution reduction targets for the water body.

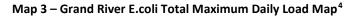
Jackson Public Schools will review and prioritize BMPs currently implemented or to be implemented during the permit cycle to make progress toward achieving the pollutant load reduction requirement in each TMDL identified. TMDLs assigned the discharges for Jackson Public Schools are described in the below sections.

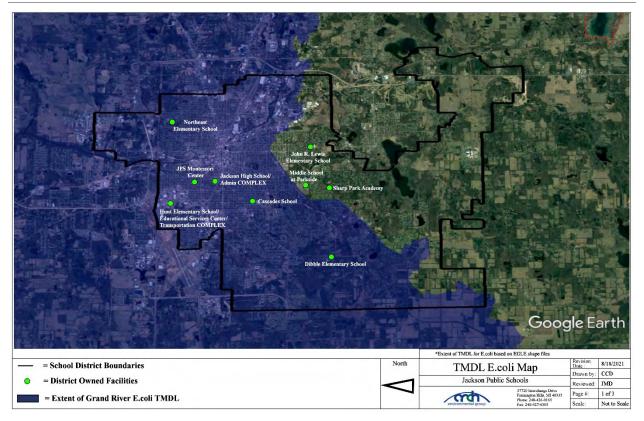
4.3 Grand River E.coli TMDL

The Grand River was placed on Section 303(b) placed on the Section 303(d) list due to impairment of recreational uses as indicated by the presence of elevated levels of **E. coli**. Illicit discharges are most likely a significant source of E. coli in the Grand River watershed. Illicit connections can be a source of E. coli during both wet and dry weather. The watershed is partially within a populated urban area.

The following District facilities discharge stormwater either directly or indirectly within the Grand River E.coli TMDL boundaries as identified in Map 3 below:

- 1. Northeast Elementary School
- 2. JPS Montessori Center
- 3. Hunt Elementary School/Educational Services Center/Transportation Complex
- 4. Jackson High School/Administrative Complex
- 5. Cascades School
- 6. Dibble Elementary School





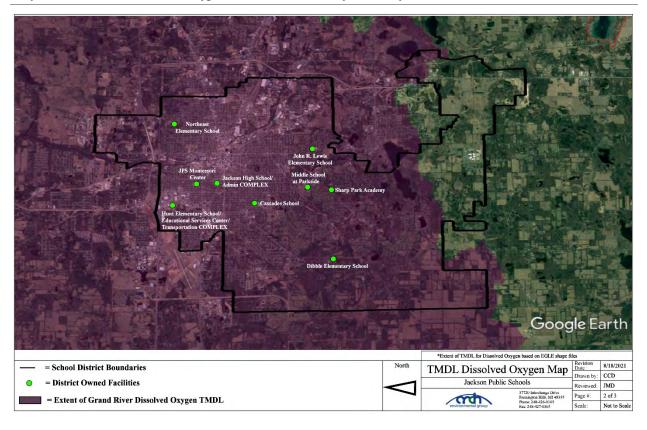
4.3 Grand River Dissolved Oxygen TMDL

The Grand River was placed on Section 303(d) list for **Dissolved Oxygen.** Suspended solids are discharged during high flow conditions and then settle on the bottom of streams during low flow conditions, this is the primary pollutant of concern for the Grand River. Additionally, runoff from urban areas contribute to Dissolved Oxygen levels in waterbodies.

The following District facilities discharge stormwater either directly or indirectly within the Grand River Dissolved Oxygen TMDL boundaries as identified in Map 4 below:

- 1. Northeast Elementary School
- 2. JPS Montessori Center
- 3. Hunt Elementary School/Educational Services Center/Transportation Complex
- 4. Jackson High School/Administrative Complex
- 5. Cascades School
- 6. Dibble Elementary School
- 7. John R. Lewis Elementary School
- 8. Middle School at Parkside
- 9. Sharp Park Academy

⁴ Total maximum daily load boundaries based on Michigan Department of Environmental Quality Water Quality Standards Shapefiles.



Map 4 – Grand River Dissolved Oxygen Total Maximum Daily Load Map⁵

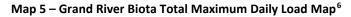
4.3 Grand River Biota TMDL

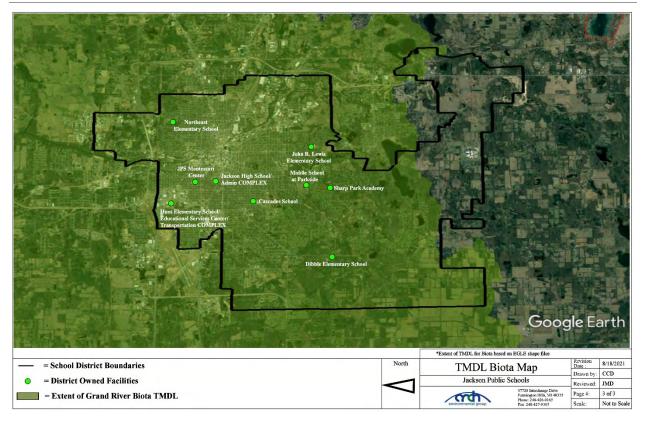
The Grand River was placed on Section 303(d) list for **Biota (Sedimentation/Siltation).** The Grand River was placed on the list for biota due to poor macroinvertebrate and fish community levels. Surveys conducted indicated that lack of habitat along with siltation/sedimentation were the predominant issues.

The following District facilities discharge stormwater either directly or indirectly within the Grand River Biota TMDL boundaries as identified in Map 5 below:

- 1. Northeast Elementary School
- 2. JPS Montessori Center
- 3. Hunt Elementary School/Educational Services Center/Transportation Complex
- 4. Jackson High School/Administrative Complex
- 5. Cascades School
- 6. Dibble Elementary School
- 7. John R. Lewis Elementary School
- 8. Middle School at Parkside
- 9. Sharp Park Academy

⁵ Total maximum daily load boundaries based on Michigan Department of Environmental Quality Water Quality Standards Shapefiles.





4.4 TMDL Implementation – Monitoring Plan

4.4.1 Sampling

- The Part 4 Water Quality Standards for E. coli is 1,000 counts per 100 ml for outfall monitoring. If the monitoring results conducted in the initial round of TMDL monitoring are below the benchmark standard for E. coli, then a second round of monitoring for E. coli (within the same permit cycle) is not required.
- 2. To determine compliance with the Biota TMDL samples collected from designated outfall/discharge points will be analyzed for total suspended solids (TSS). The Grand River's benchmark standard for TSS is less than or equal to 80 mg/L for outfall monitoring. If the monitoring results conducted in the initial round of TMDL monitoring are below the benchmark standard for TSS for the Grand River, then a second round of monitoring for Biota (within the same permit cycle) is not required.
- 3. The Part 4 Water Quality Standards for Dissolved Oxygen is 7.0 mg/L. If the monitoring results conducted in the initial round of TMDL monitoring are below the benchmark standard for Dissolved Oxygen, then a second round of monitoring for Dissolved Oxygen (within the same permit cycle) is not required.
- 4. If a designated TMDL in a receiving waterbody to which one or more district facilities discharges is being attained, outfall discharge point monitoring will not be conducted at the district facilities that discharge to that receiving waterbody.

⁶ Total maximum daily load boundaries based on Michigan Department of Environmental Quality Water Quality Standards Shapefiles.

4.4.2 Prioritized TMDL Best Management Practices

The below lists stormwater BMPs that are targeted to improve water quality impairments associated by the TMDL.

E. COLI/BIOTA

- 1. Jackson Public Schools will use its website to provide the public with information regarding pet waste (SEMCOG links). Additionally, SEMCOG pet waste posters are placed at various school buildings.
- 2. Jackson Public Schools will prohibit illicit discharges, inspect, and monitor suspected illicit discharges, and enforce elimination of the illicit discharges and connections.
- 3. Jackson Public Schools has reviewed all facilities for cross-connections between the sanitary and storm sewer systems.
- 4. Jackson Public Schools will conduct hand sweeping in the parking lots/roadways in the spring and fall.
- 5. Jackson Public Schools has established programs for soil erosion and sediment control from new or redevelopment construction. Such developments require permits and inspections for practices to keep exposed soils on site or controlled from runoff.
- 6. Jackson Public Schools has implemented routine visual inspections of stormwater structural controls.
- 7. Jackson Public Schools will remove excessive sediments from structural sediment removal systems to maintain the maximum designed performance. Sediments will be disposed of offsite in accordance with Parts 115 or 121.

DISSOLVED OXYGEN

- 1. The use of Phosphorous containing fertilizers is restricted for use at all Jackson Public Schools facilities (unless soil testing indicates the necessity of adding phosphorous). In addition, all fertilizer use is restricted to athletic fields and/or areas designated as "curb appeal."
- 2. Jackson Public Schools will continue to use its website to provide the public information regarding pesticide use, pollution prevention, soil testing, stream buffers, and lawn fertilizers.
- 3. Jackson Public Schools will continue to use its website to provide the public with information on "school" carwashes.
- 4. Jackson Public Schools will continue to use its website to provide the public with information regarding pet waste. Additionally, SEMCOG pet waste posters are placed at various school buildings.
- 5. Jackson Public Schools has established programs for soil erosion and sediment control from new or redevelopment construction. Such developments require permits and inspections for practices to keep exposed soils on site or controlled from runoff.
- 6. Jackson Public Schools conducts routine visual inspections of stormwater structural controls.
- 7. Jackson Public Schools will remove excessive sediments from structural sediment removal systems to maintain the maximum designed performance. Sediments will be disposed of offsite in accordance with Parts 115 or 121.

ALL TMDLs

- Jackson Public Schools will continue to use its website to provide the public information regarding local TMDL issues (phosphorous, E. coli, biota, and dissolved oxygen TMDL Best Management Practice).
- 2. Jackson Public Schools will continue to educate staff, faculty, and students using various venues including the **"Seven Simple Steps to Clean Water"** program educational materials developed by the

various watershed groups specifically related to these issues on the stormwater management webpage.

- 3. The district has implemented an Illicit Discharge Regulatory Policy.
- 4. The district has implemented a Post-Construction Policy and Procedure.
- 5. The district has implemented an Enforcement Response Procedure.
- 6. Adequately maintains vegetation around stormwater facilities, ditches, and ponds.
- 7. Provide training to applicable staff and confirm training from contractors including restrictions on the use of phosphorous containing fertilizers, soaps, cleaners, and other chemicals that could impact the separate storm drain system.

Procedure

Prioritization of BMPs is based on Jackson Public Schools targeted TMDL pollutants. Priority is given to BMPs that reduce E. coli loads, address water quality for biota, and increase oxygen levels. If the monitoring results conducted in the initial round of TMDL monitoring for a specific TMDL parameter was below the benchmark standard, then a second round of monitoring (within the same permit cycle) is not required for that specific parameter.

Assessment

The EGLE Stormwater Discharge Permit Application requires a monitoring plan for assessing the effectiveness of the BMPs currently being implemented, or to be implemented, in making progress toward achieving the TMDL pollutant load reduction requirement. Monitoring shall be specifically for the pollutant identified in the TMDL. Monitoring may include wet weather outfall/discharge point monitoring and dry-weather screening. A summary of the monitoring results and conclusions related to TMDLs will be provided during progress reporting.

Jackson Public Schools will conduct the following for applicable TMDLs:

- The goal is to collect samples from at least 50% of the outfall/discharge points at facilities associated with the TMDL. An effort will be made to sample water quality parameters during a representative (i.e., >0.25" and <1.5") wet weather event over a 24-hour period, and within 30 to 60 minutes of the start of the wet weather event in order to capture the first flush. Monitoring shall be specifically for the pollutant identified in the TMDL. TMDL Sample locations are located in Appendix G.
- 2. The results of the sampling will be assessed and summarized in a brief assessment report to be shared with the public if requested.
- 3. Based on a review of the sampling results, BMP implementation will be reviewed for effectiveness and BMPs may be updated or revised to ensure progress toward achieving TMDL pollutant load reductions.

4.4.3 TMDL - BMP Table

ВМР	Description of BMP	Timeframe	Measurable Goal	Measure of Assessment	Responsible Party
	The District will use its website to provide the public with information regarding pet waste (SEMCOG links). Additionally, SEMCOG pet waste posters are placed at various school		Posters placed throughout Jackson Public Schools facilities.		Jackson Public Schools
BMP #4.4.2.1 Webpage	buildings. The District will continue to use its website to provide the public information regarding local TMDL issues (E. coli, biota, and dissolved oxygen TMDL Best Management Practice).	Ongoing Throughout Permit Cycle	Material available on webpages.	Maintain links on webpage. Maintain copies of webpage review.	
BMP #4.4.2.2 Outfall Monitoring	Select outfall/discharge points at facilities associated with the TMDL will be monitored. An effort will be made to sample water quality parameters during a representative wet weather event over a 24-hour period, and within 30 to 60 minutes of the start of the wet weather event in order to capture the first flush. Monitoring shall be specifically for the pollutant identified in the TMDL.	Once per Permit Cycle Throughout Permit Cycle. Second Round as Needed based on Initial Results	The goal is to collect samples from at least 50% of the outfall/points of discharge at facilities associated with the TMDL.	Copy of inspection paperwork and sample results.	Jackson Public Schools
BMP #4.4.2.3 Effectiveness Review	The results of the sampling will be assessed for the effectiveness of the BMPs currently being implemented for TMDL pollutant load reduction and summarized in an assessment report.	Once per Permit Cycle Throughout Permit Cycle	Report available for public review if requested.	Assessment report completed.	Jackson Public Schools

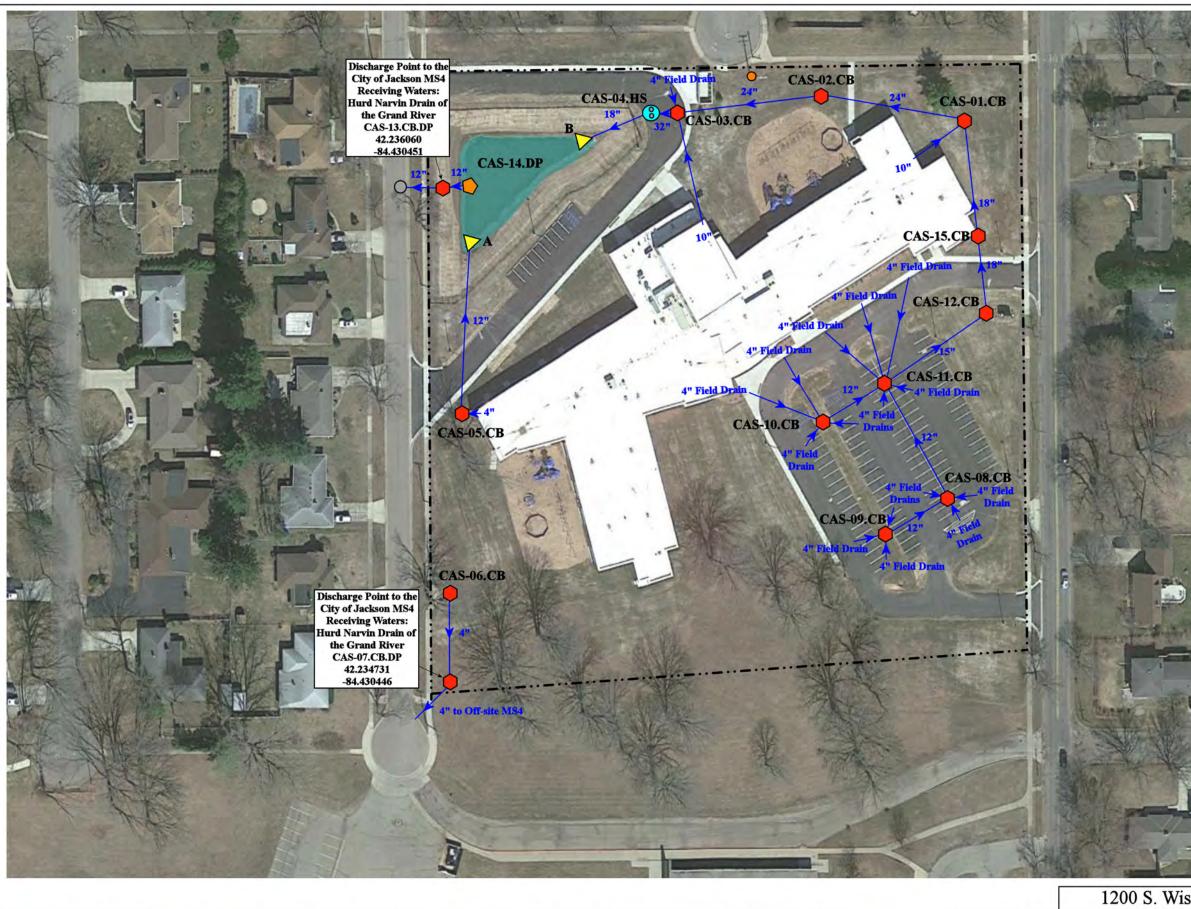
Appendix A

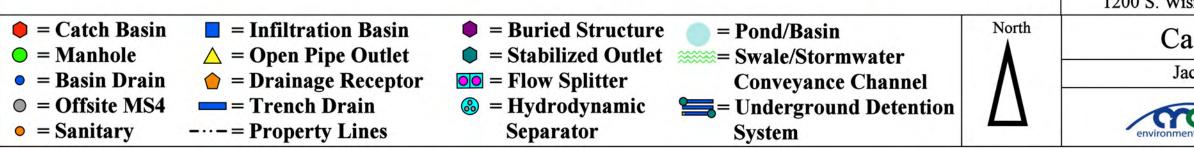
Outfall/Discharge Point Receiving Water Table & Site Stormwater Structure Maps

Creation Date: September 14, 2021 Revision Date: August 16, 2023

Receiving Waters Table

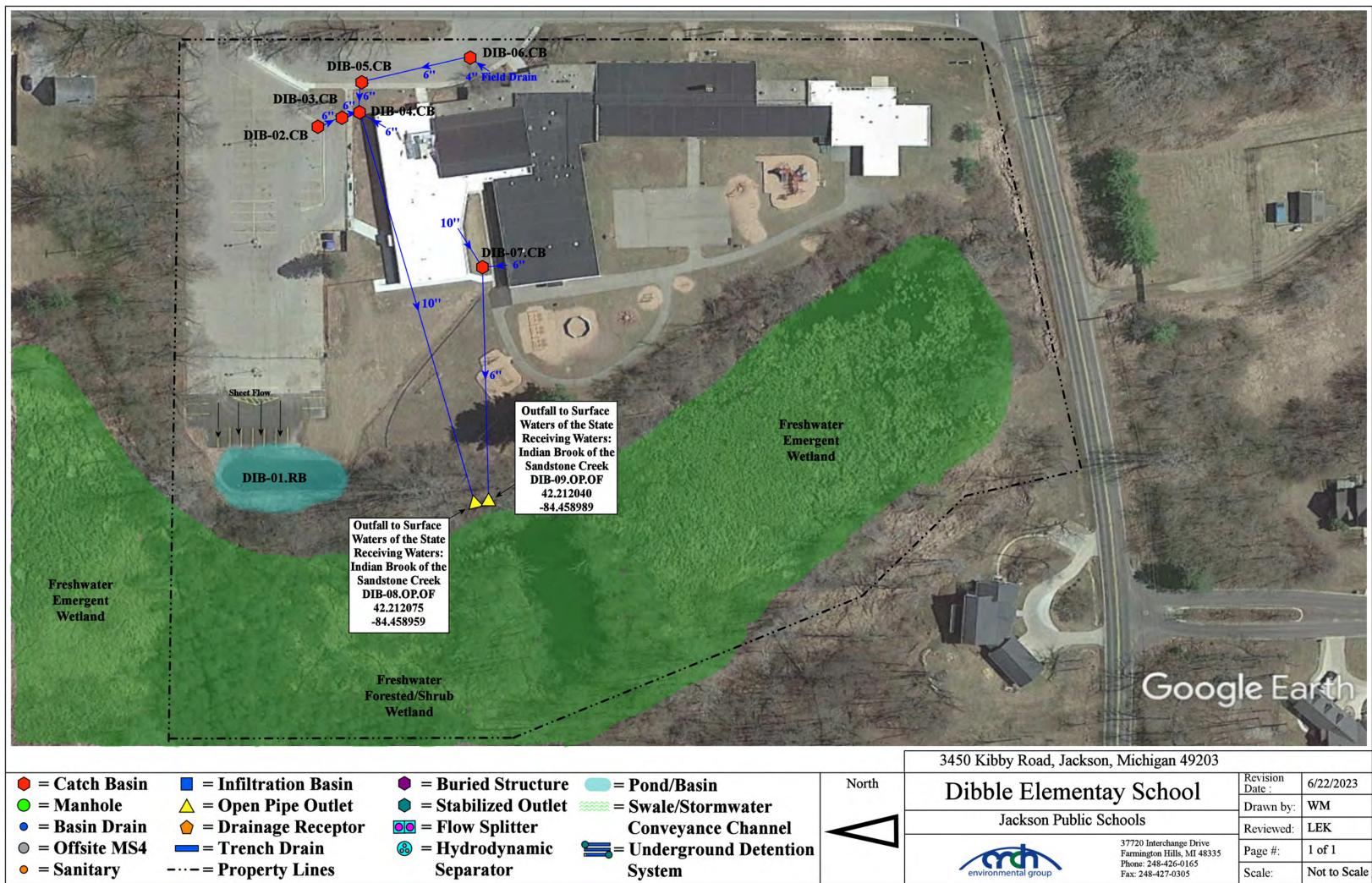
		Jackson Public Schools		
FACILITY	OUTFALL/DISCHARGE POINT	POINT OF DISCHARGE/OUTFALL	RECEIVING WATERS	WATERSHED
Cascades Elementary School	CAS-07.CB.DP	City of Jackson MS4	Hurd Narvin Drain	Grand River
Cascades Elementary School	CAS-13.CB.DP	City of Jackson MS4	Hurd Narvin Drain	Grand River
Dibble Elementary School	DIB-08.OP.OF	Surface Waters of the State	Indian Brook-Sandstone Creek	Grand River
Dibble Elementary School	DIB-09.OP.OF	Surface Waters of the State	Indian Brook-Sandstone Creek	Grand River
Hunt Elementary School/Education	HET-21.MH.DP	City of Jackson MS4	Hurd Narvin Drain	Grand River
Service Center/Transportation Complex	HET-34.MH.DP	City of Jackson MS4	Hurd Narvin Drain	Grand River
	JHS-10.MH.DP	City of Jackson MS4	Hurd Narvin Drain	Grand River
	JHS-41.FS.DP	City of Jackson MS4	Hurd Narvin Drain	Grand River
Jackson High School/Administration	JHS-42.CB.DP	City of Jackson MS4	Hurd Narvin Drain	Grand River
Complex	JHS-49.MH.DP	City of Jackson MS4	Hurd Narvin Drain	Grand River
	JHS-52.CB.DP	City of Jackson MS4	Hurd Narvin Drain	Grand River
	JHS-74.SO.DP	City of Jackson MS4	Hurd Narvin Drain	Grand River
John R. Lewis Elementary School	JRL-21.OP.OF	Surface Waters of the State	Booth Drain	Grand River
	MSP-06.MH.DP	City of Jackson MS4	Booth Drain	Grand River
	MSP-07.MH.DP	City of Jackson MS4	Booth Drain	Grand River
	MSP-15.MH.DP	City of Jackson MS4	Booth Drain	Grand River
	MSP-42.CB.DP	City of Jackson MS4	Booth Drain	Grand River
Middle School at Parkside	MSP-45.CB.DP	City of Jackson MS4	Booth Drain	Grand River
	MSP-47.CB.DP	City of Jackson MS4	Booth Drain	Grand River
	MSP-50.CB.DP	City of Jackson MS4	Booth Drain	Grand River
	MSP-52.CB.DP	City of Jackson MS4	Booth Drain	Grand River
	MSP-53.CB.DP	City of Jackson MS4	Booth Drain	Grand River
	MSP-65.CB.DP	City of Jackson MS4	Booth Drain	Grand River
Montessori Center	JMC-02.MH.DP	City of Jackson MS4	Hurd Narvin Drain	Grand River
Northeast Elementary School	NEE-16.OP.OF	Surface Waters of the State	Hurd Narvin Drain	Grand River
Sharp Park Academy	SPA-07.CB.DP	City of Jackson MS4	Booth Drain	Grand River



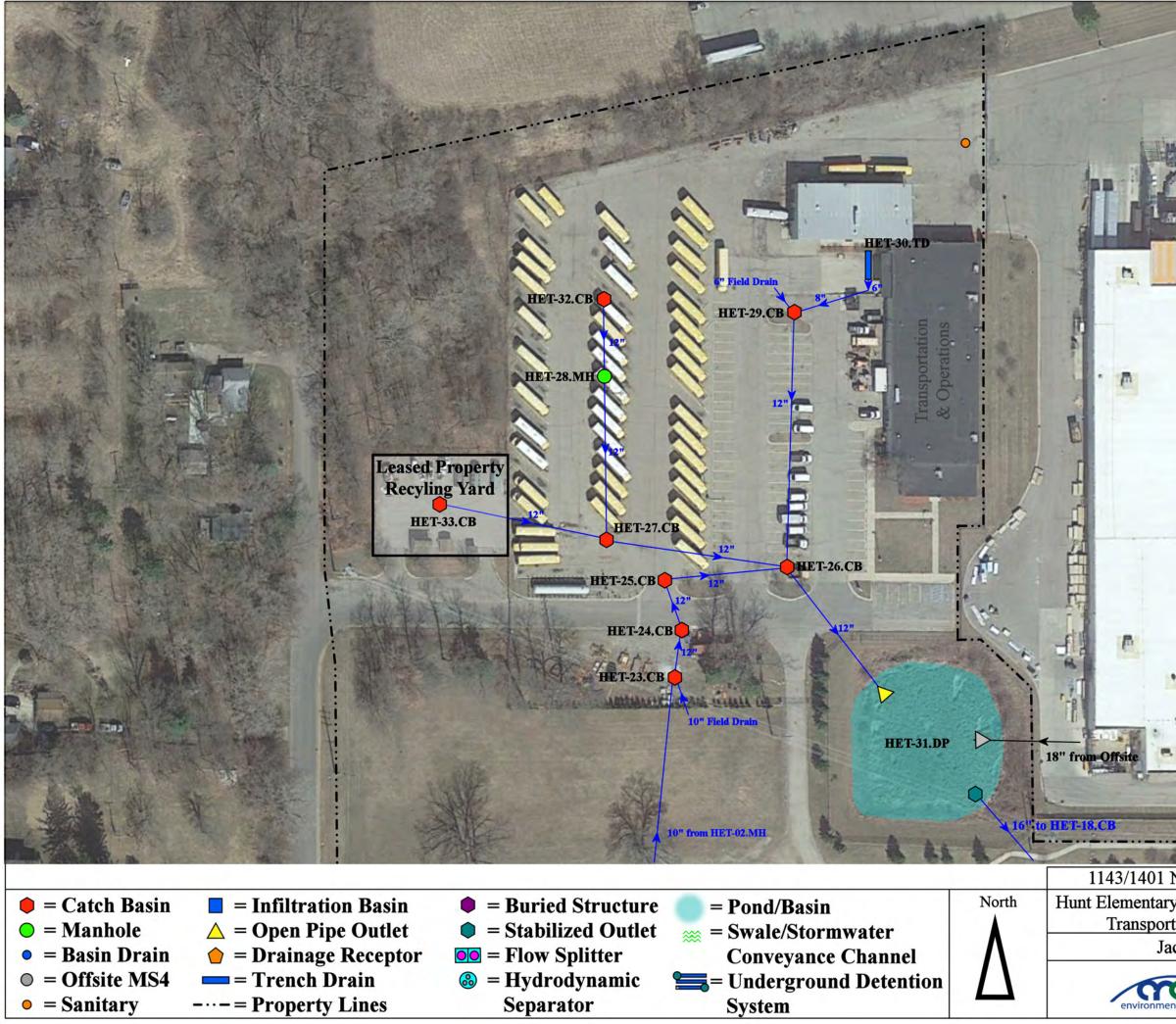


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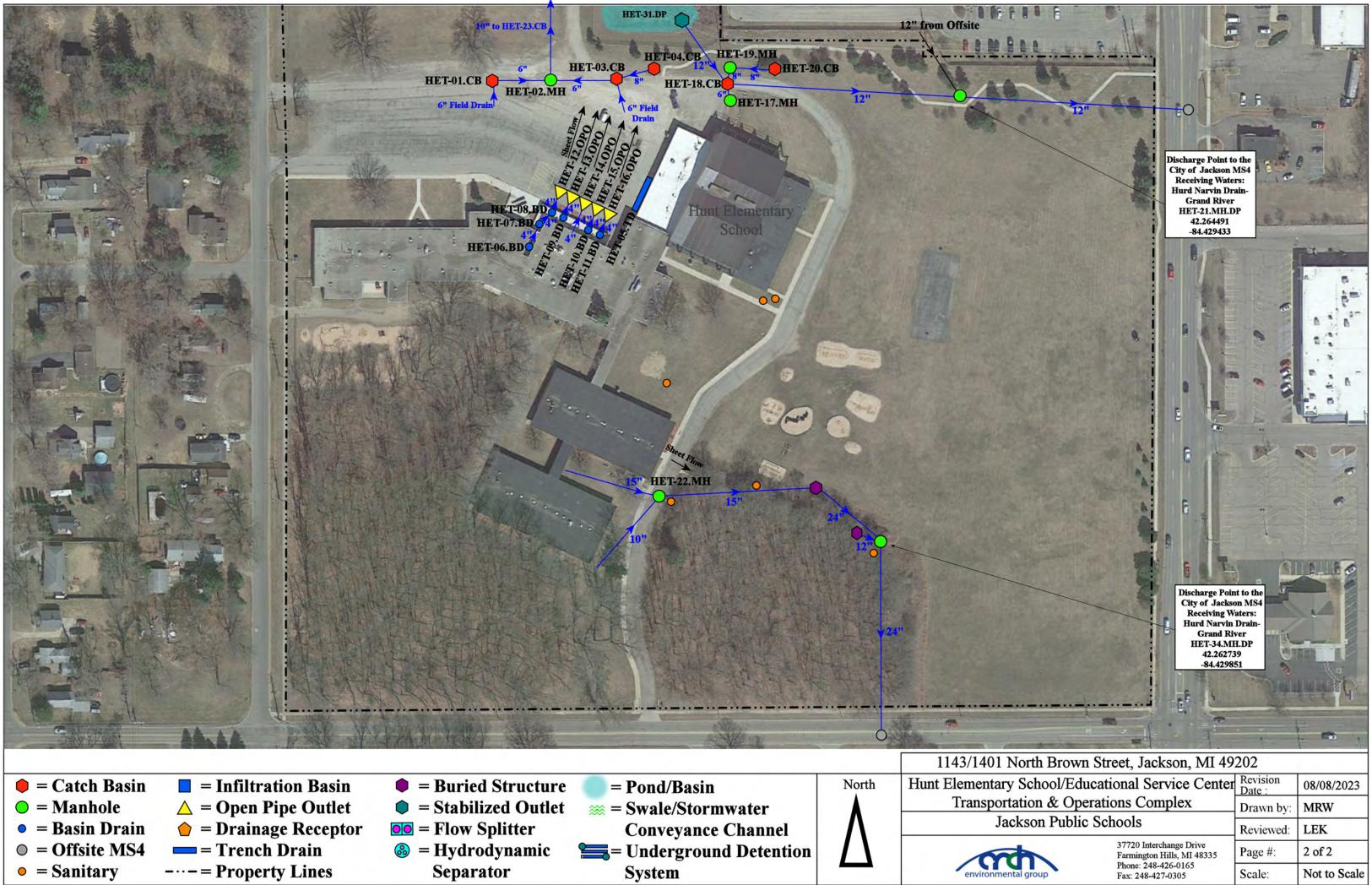
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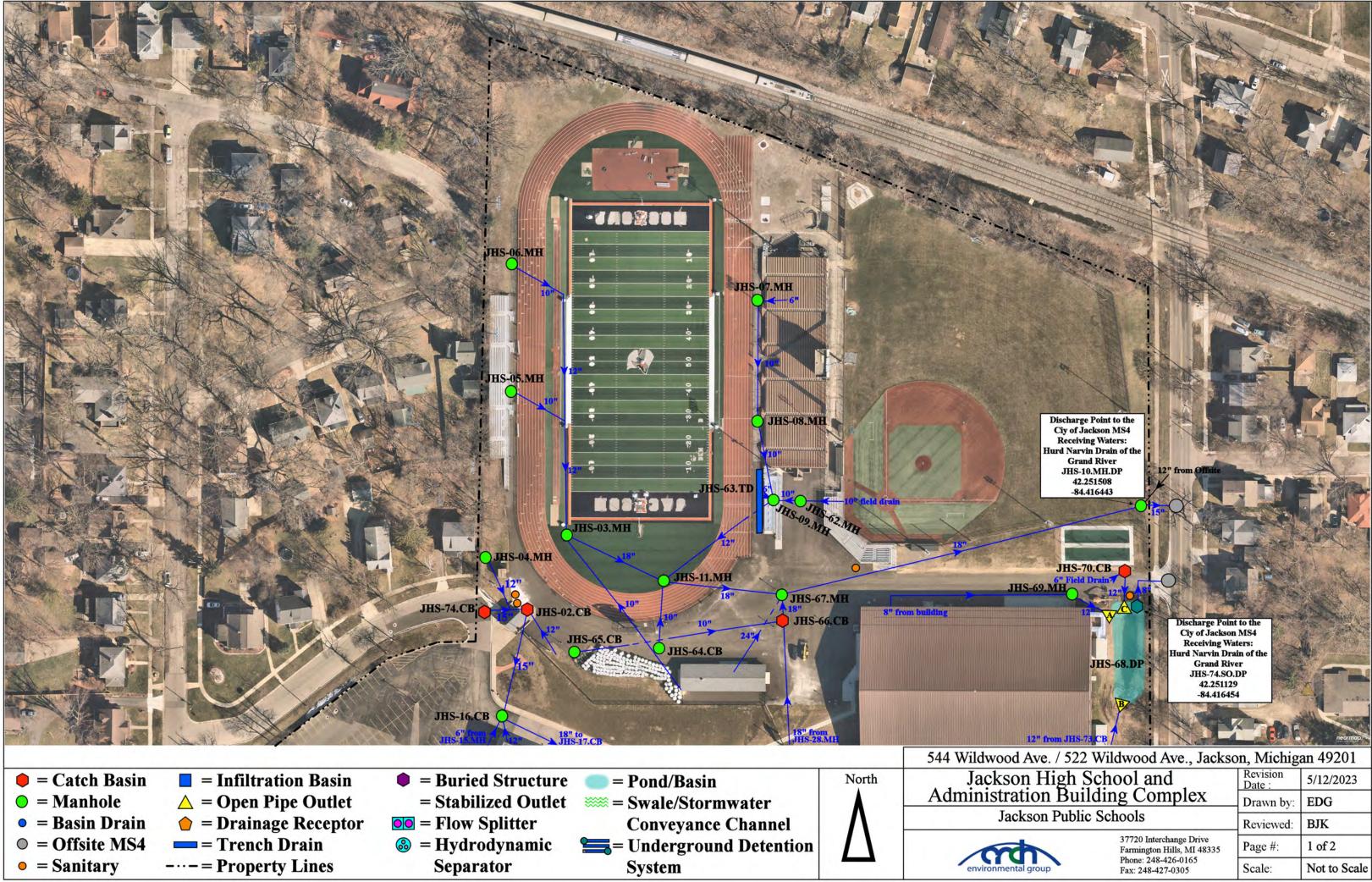


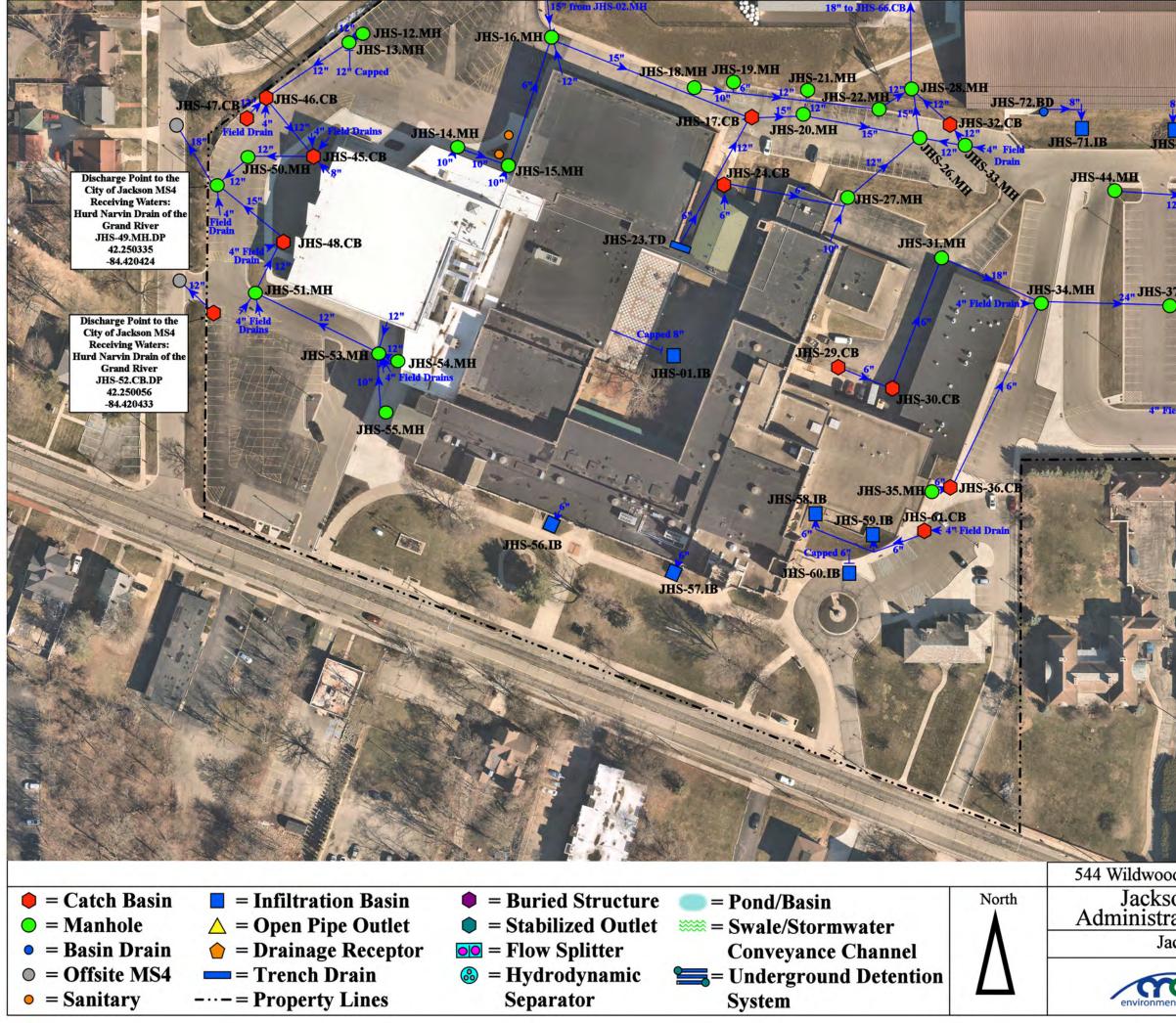
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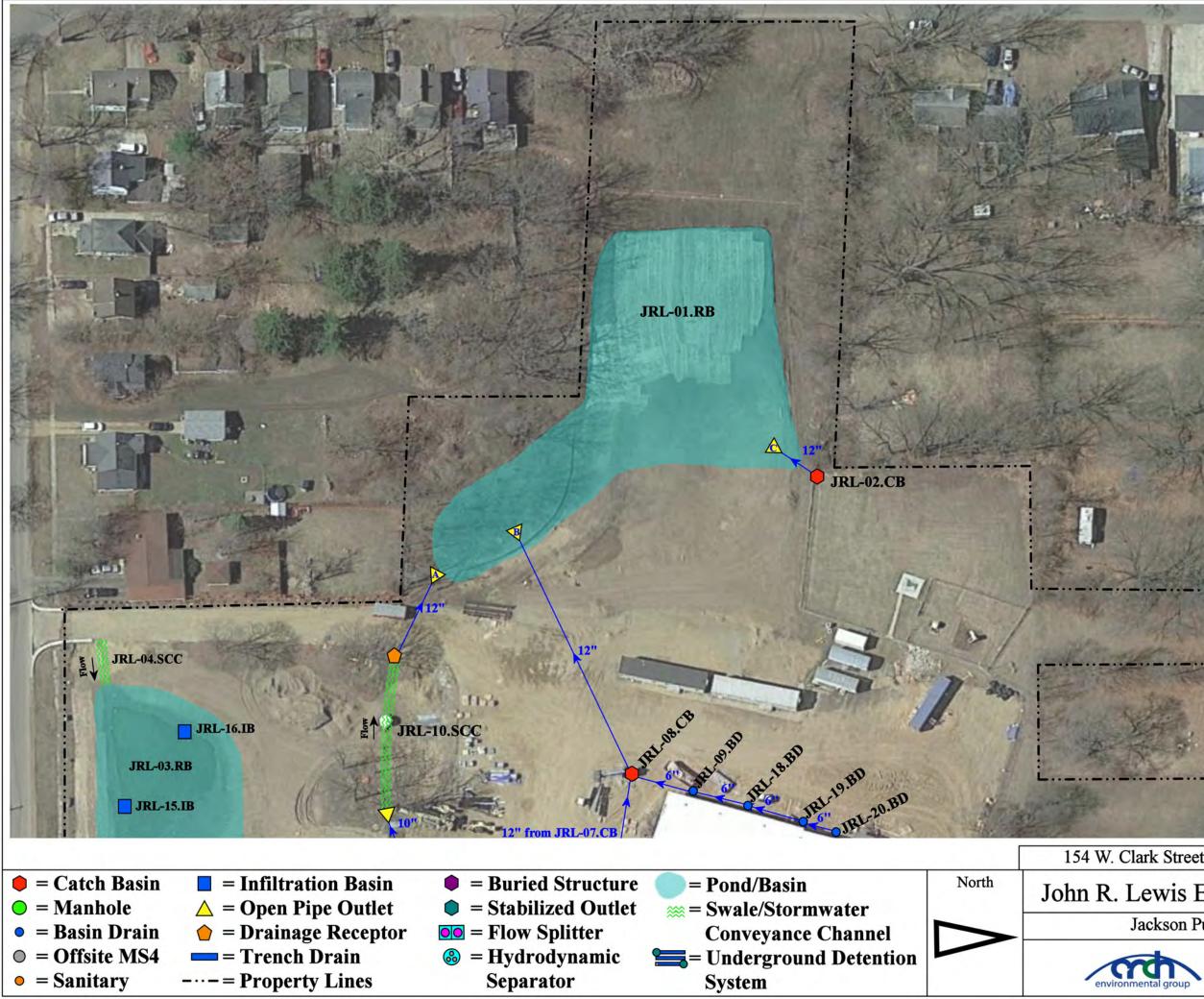
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JHS-68.DP	Discharge Point to the City of Jackson MS4 Receiving Waters: Hurd Narvin Drain of the Grand River JHS-42.CB 42.250267 -83.416391
24 37.MH 24" 24" JHS-40.CB 24"	Discharge Point to the City of Jackson MS4 Receiving Waters: Hurd Narvin Drain of the Grand River JHS-41.FS.DP 42.250053 -84.416433

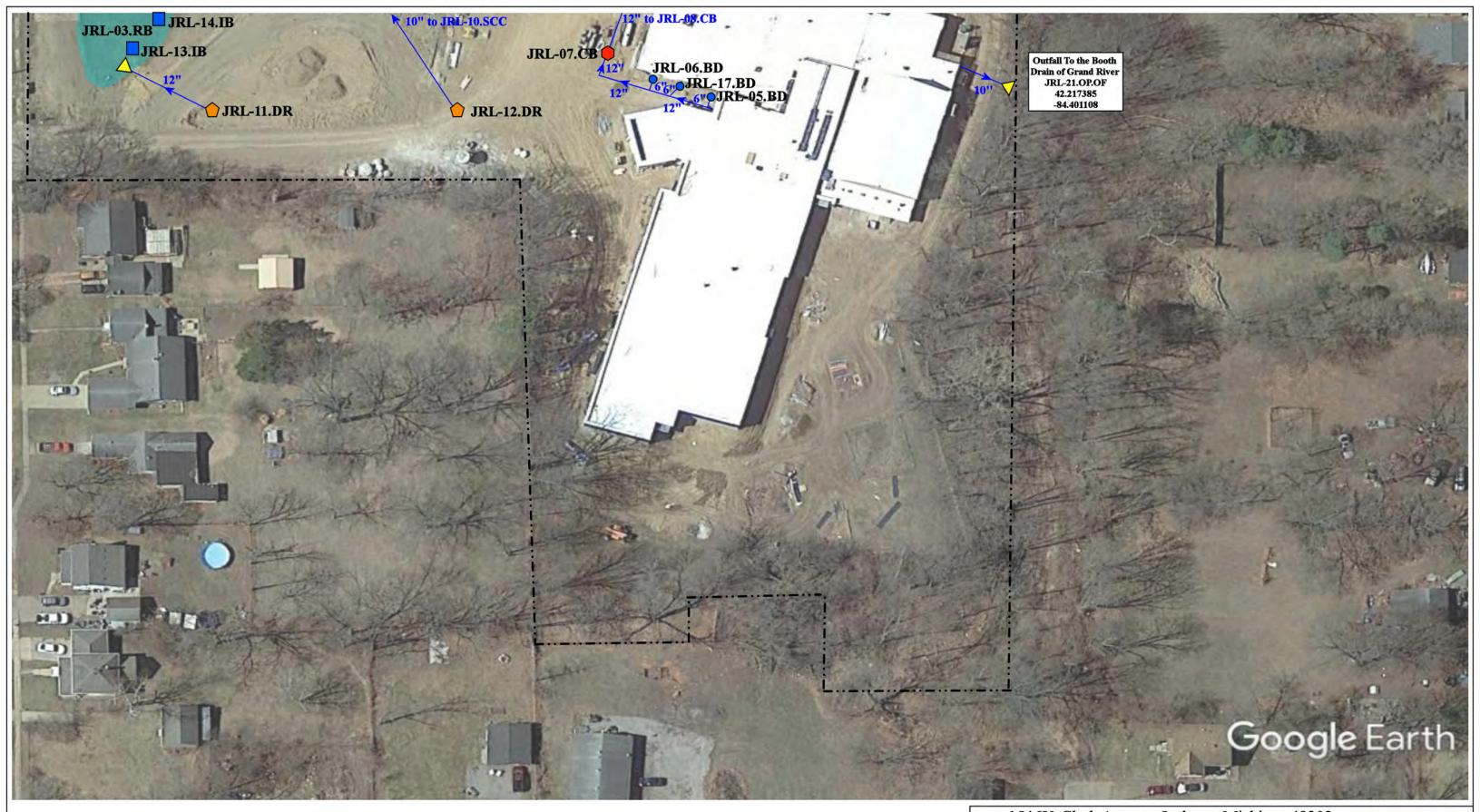
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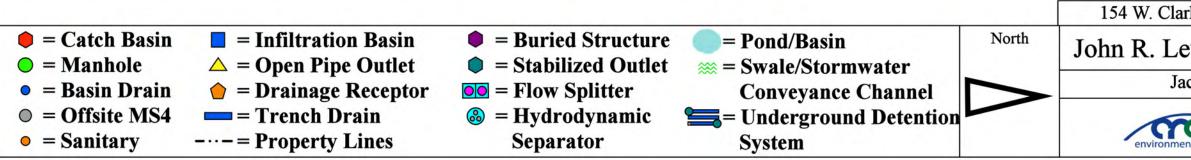


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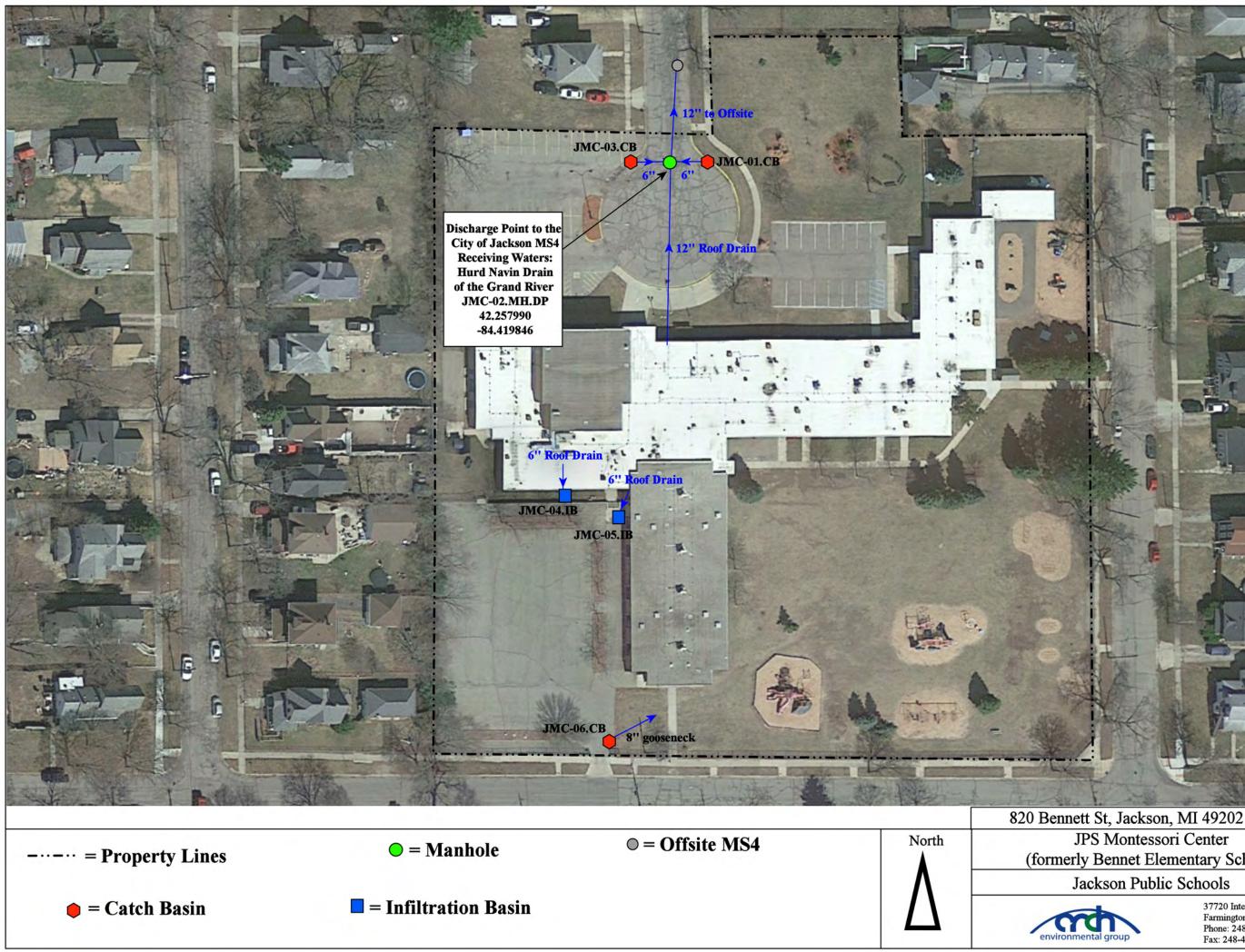
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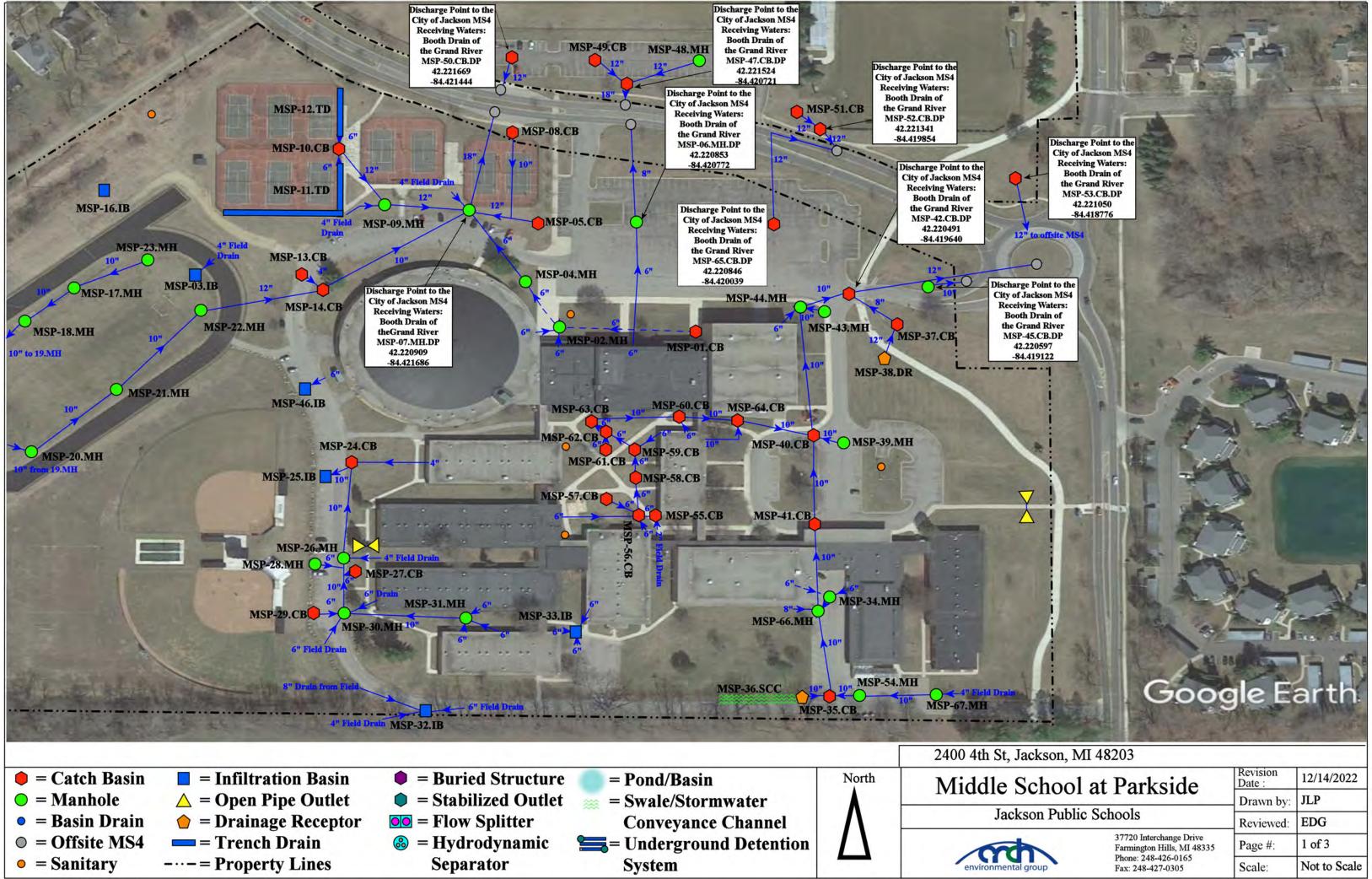


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		Reviewed:	EDG
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 = Catch Basin = Manhole = Basin Drain = Offsite MS4 	 Infiltration Basin Open Pipe Outlet Drainage Receptor Trench Drain 	 = Buried Structure = Stabilized Outlet = Flow Splitter = Hydrodynamic 	= Pond/Basin = Swale/Stormwater Conveyance Channel = Underground Detentio	n North	2400 4th St, Middle Jac
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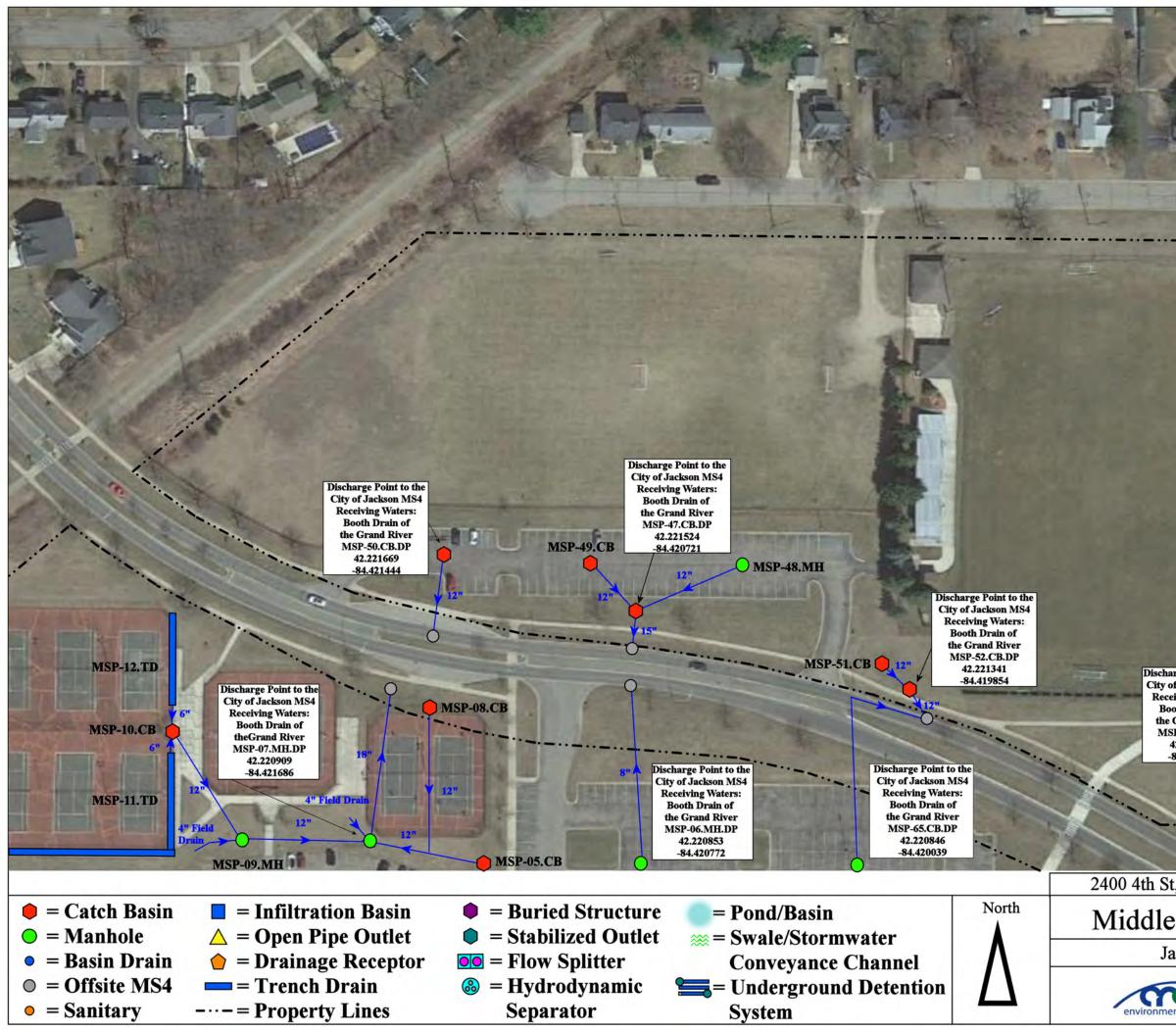
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• = Sanitary

-··- = Property Lines



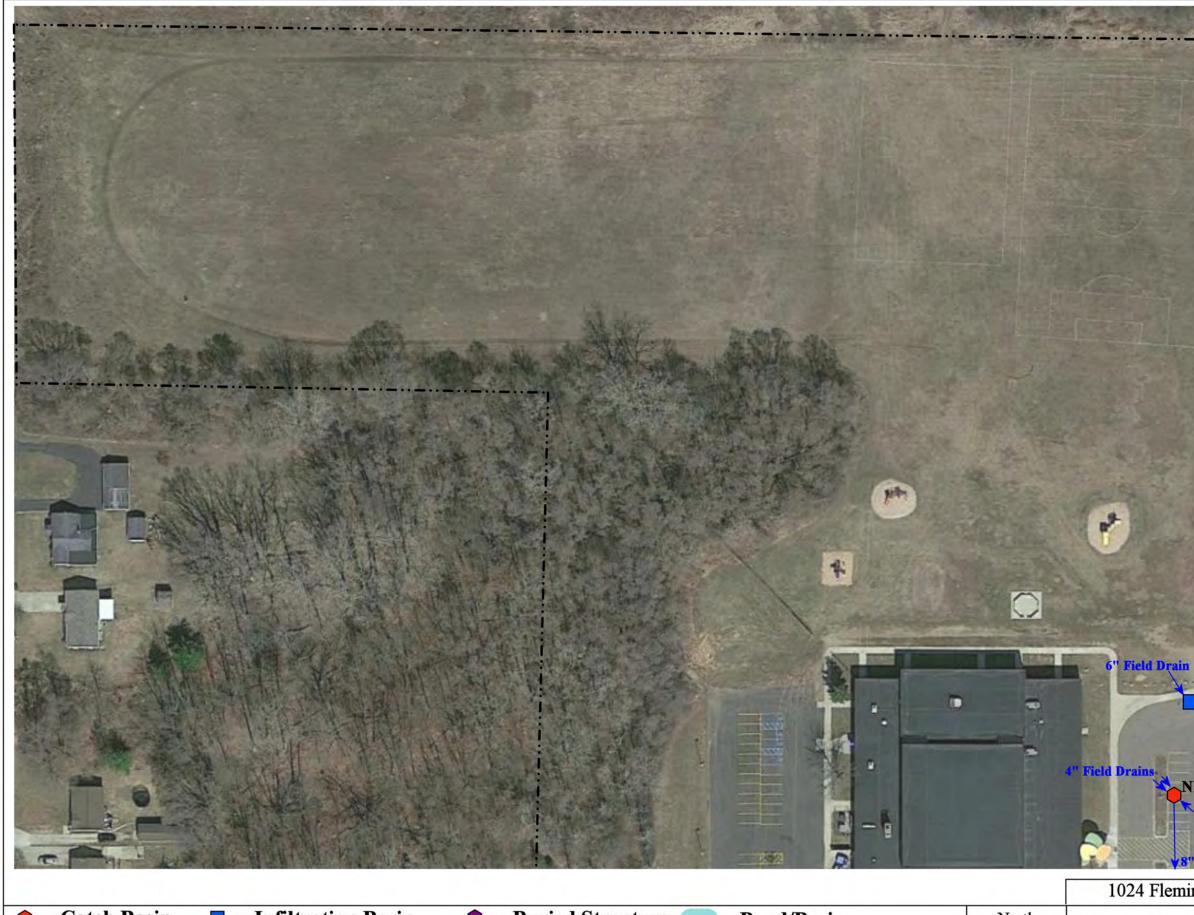


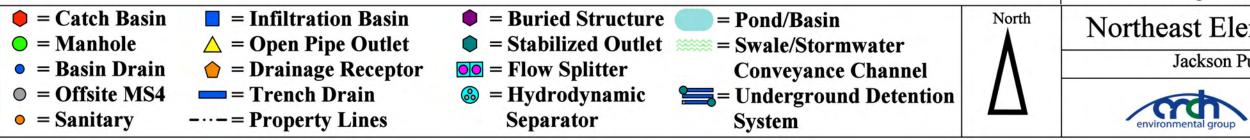
Discharge Point to the City of Jackson MS4 Receiving Waters: Booth Drain of the Grand River MSP-53.CB.DP 42.221050 -84.418776

Google Earth

2400 4th St, Jackson, MI 48203

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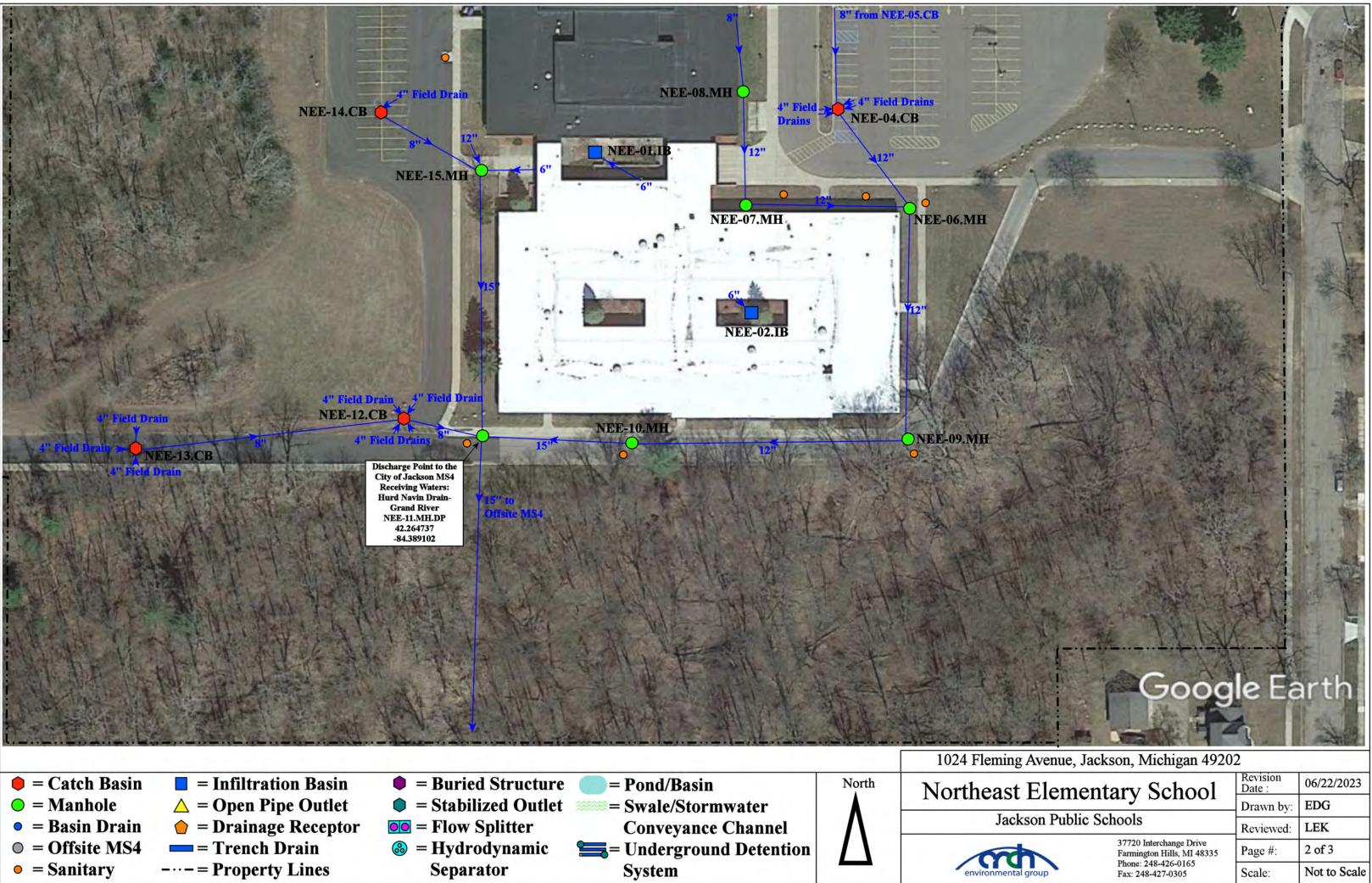


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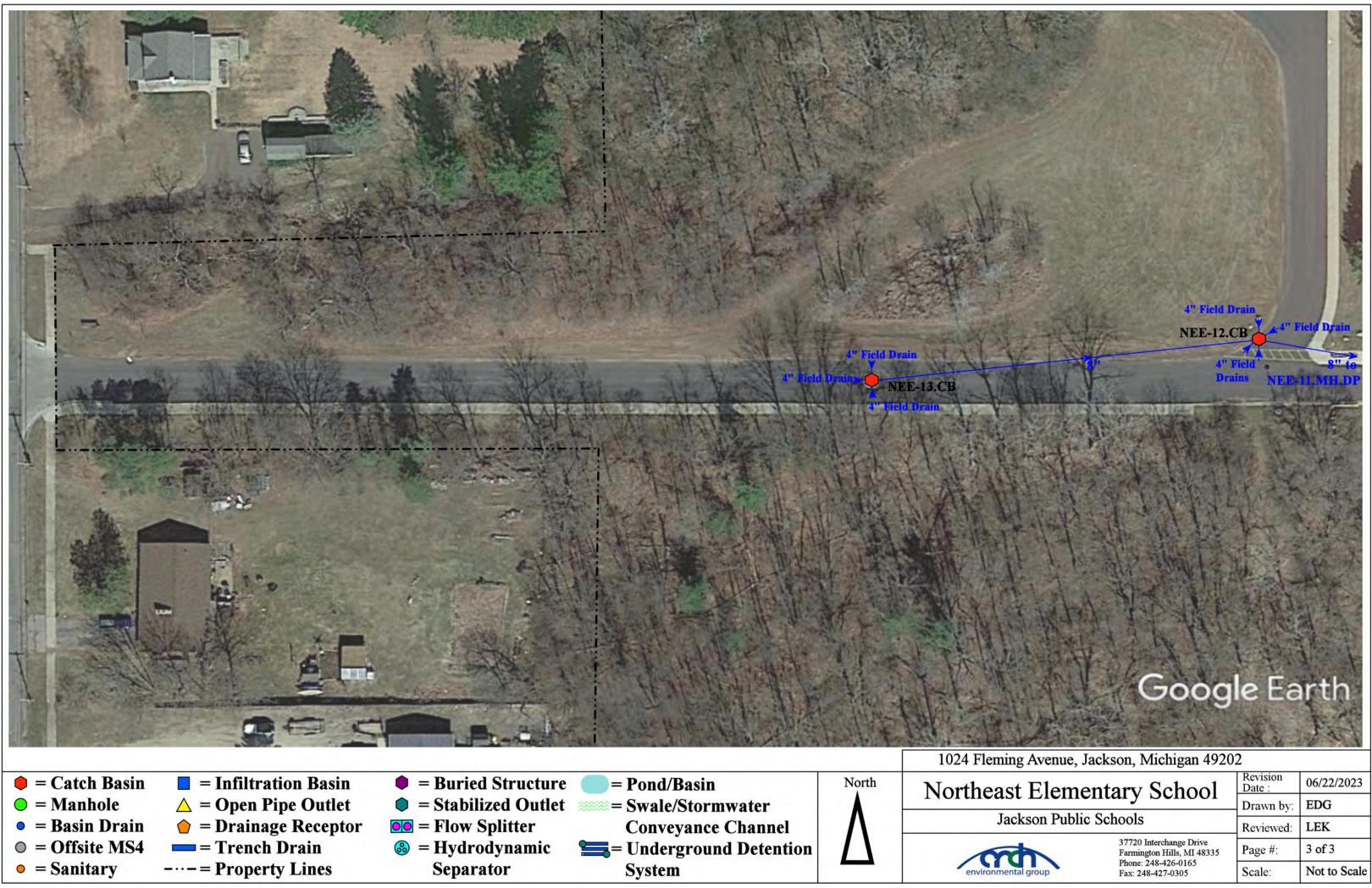
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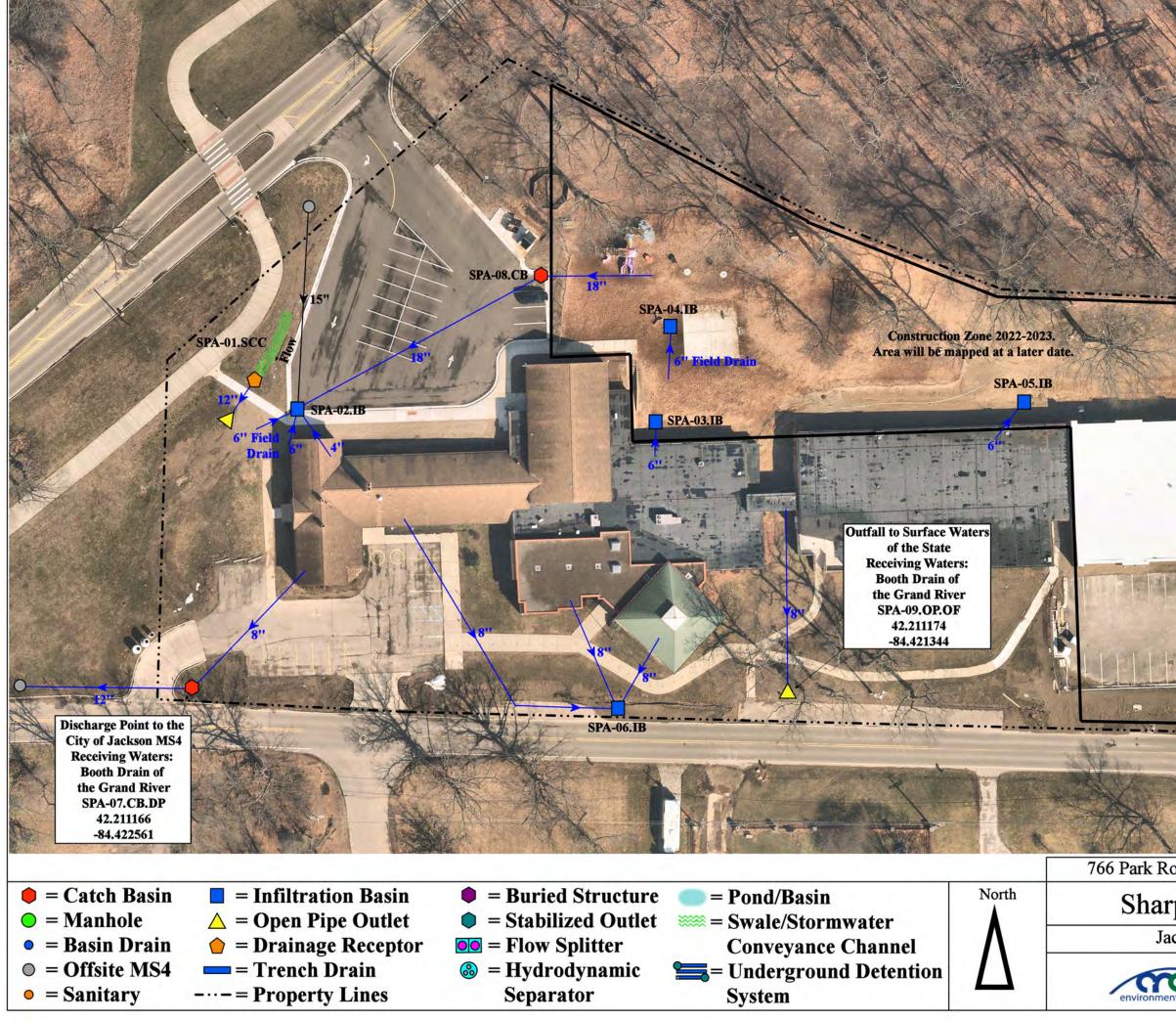
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Appendix B

Enforcement Policies and Tracking Forms

Creation Date: September 14, 2021 Revision Date: August 16, 2023

Municipal Separate Storm Sewer System Noncompliance Enforcement Tracking Jackson Public Schools Permit No. In-Process

Report Number	Name	Date	Location of Violation	Business/ Organization	Description of Enforcement Response	Compliance Schedule Date	Date Violation Resolved
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							

District Illicit Discharge/Illegal Dumping Reporting Form Jackson Public Schools

Date:		Time				
Inspect	ors:					
		REPORT				
1. Desc		he reason for conducting the investigation.		Facility Chaff		
		Illicit Discharge Inspection (Routine) Citizen Complaint	-			
		Other				
	-	otilei				
II. SOU	RCE					
		ocation of source of discharge (company na	me,	address, cross streets, physical features, etc.)		
2. Desc	ribe t	he Source:				
		Residential		Transportation Facility		
		Construction Site		Custodial		
		Other				
3. Facili	ity of	the Source:				
	-					
III. TYP	E					
1. Desc	ribe t	he type of material discharged:				
		Sanitary Leak/Spill		Paint Discharge		
		Dumpster Discharge				
		Unhardened Cement Discharge		Paint Discharge		
		Vehicle Repair Grey Water Discharge		Vehicle Washing Landscape Material Dumping		
				Allowable Discharge		
		Other				
Ducuida						
Provide	Auu	tional Information:				
·						
2.04						
2. Othe		Illicit Connection				
		Construction Site				
		Other				
	-	Other				
IV. FOL	LOW	UP AND ENFOREMENT ACTIVITIES				
1. Desc	ribe (Corrective Actions:				
		inforcement Action:				
		ncident Resolved 🔲 Verbal Notice				
🗖 Ad	dmini	strative Action				
2 0-4	Dee	lug di				
3. Date	e Keso	lved:				
A Boom	4. Responsible Party					
4. resp	OUSIC	ne raily				
Signation						
Signatu	ne:		_			

Stormwater Management – Illicit Discharge Regulatory Policy

Jackson Public Schools Permit Number: In-Process Issue date: October 1, 2021

This illicit discharge regulatory policy was developed as a regulatory policy for prevention of pollution from storm water runoff and to protect the quality of the waters of the State of Michigan through the regulation of non-stormwater discharges to the municipal separate storm sewer system (MS4) to the maximum extent practicable as required by federal and state law. This regulatory mechanism establishes methods for controlling the introduction of pollutants into the MS4 in order to comply with the requirements of the National Pollutant Discharge Elimination System (NPDES) permit through the Michigan Department of Environment, Great Lakes, and Energy (EGLE). The objectives of the regulatory mechanism are:

- 1. To regulate the contribution of pollutants to the MS4 by stormwater discharges by any user.
- 2. To prohibit illicit connections and discharges into the MS4.
- 3. To establish authority to investigate, inspect, and monitor suspected illicit discharges.

District properties include all Jackson Public Schools properties.

Illicit Discharge means any discharge to, or seepage into the separate stormwater drainage system that is not composed entirely of stormwater or uncontaminated groundwater except discharges pursuant to an NPDES permit.

Illicit Connection means a physical connection to the MS4 separate stormwater system that primarily conveys non-stormwater discharges other than uncontaminated groundwater into the MS4 separate storm sewer system; or a physical connection not authorized or permitted by the local authority, where a local authority requires authorization or a permit for physical connections.

Prohibitions of Illicit Discharges

- 1. Prohibition of Illicit Discharges:
 - a. Jackson Public Schools prohibits the discharge of non-stormwater discharges into the storm drain system, including but not limited to pollutants or waters containing any pollutants.
 - b. No person shall throw, drain, or otherwise discharge, cause, or allow others under its control to throw, drain, or otherwise discharge into the MS4 any pollutants or waters containing any pollutants, other than stormwater.
- 2. The following discharge is **not prohibited**:
 - a. This policy excludes prohibitions from the discharge or flows from firefighting activities to the Jackson Public Schools MS4. Discharge or flows from firefighting activities will be

addressed only if they are identified as significant sources of pollutants to surface waters of the state.

- b. The following activities are **not prohibited** under this policy unless they are determined to be significant sources of pollutants to surface waters of the state:
 - Water line flushing and discharges from potable water sources.
 - Landscape irrigation runoff, lawn water runoff, and irrigation waters.
 - Diverted stream flows and flows from riparian habitats and wetlands.
 - Rising groundwater and springs.
 - Uncontaminated groundwater infiltration and seepage.
 - Uncontaminated pumped groundwater, except groundwater cleanups specifically authorized by NPDES permits.
 - Air conditioning condensation.

Prohibition of Illicit Connections

- 1. The construction, use, maintenance or continued existence of illicit connections to the MS4 is prohibited.
- 2. This prohibition expressly includes, without limitation, illicit connections made in the past, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection.
- 3. A person is considered to be in violation of this regulatory mechanism if the person connects a line conveying sewage to the MS4 or allows such a connection to continue.
- 4. Improper connections in violation of this regulatory mechanism must be disconnected and redirected.
- 5. Illicit discharge and connections will be eliminated immediately.

Enforcement

The District Stormwater Program Manager will administer and enforce the stormwater management program, including investigate, inspect, and monitor suspected illicit discharges or illicit connections.

If you witness or think a discharge is taking place, please contact the Jackson Public Schools at 517-841-2161.

Stormwater Management - Post-Construction Policy & Procedure

Jackson Public Schools Permit Number: In-Process Issue date: August 16, 2023

Applies To: As required by the National Pollutant Discharge Elimination System (NPDES) permit for Jackson Public Schools, the scope of this Guideline includes all development and redevelopment projects on District properties that involve either:

- a. earth disturbance of one (1) acre or greater, **OR**
- b. earth disturbance of less than one (1) acre, but which are part of a larger common plan of development or sale that would disturb one (1) acre or more.

Post-Construction Requirements Policy Statement

Jackson Public Schools development and redevelopment projects on District property are regulated under and must comply with the Jackson Public Schools NPDES permit for stormwater discharges, as issued by the Michigan Department of Environment, Great Lakes and Energy (EGLE). The Stormwater Management Post-Construction Requirements Guideline has been developed to provide guidance regarding responsibilities and actions to meet the NPDES permit conditions for development and redevelopment projects on district owned properties.

Post-Construction Plan for Stormwater Management

The post-construction plan for stormwater management on regulated sites **must** include:

- A minimum treatment volume standard to address water quality impacts.
- Channel protection criteria to address resource impairment resulting from flow volumes and rates.
- Review sites with known soil and/or groundwater contamination, including potential "hot spots" and evaluate the use of infiltration BMPs to meet water quality treatment and channel protection criteria to ensure that infiltration BMPs do not exacerbate existing conditions. Hot spots include areas with the potential for significant pollutant loading such as vehicle service and maintenance facilities, vehicle equipment cleaning facilities, fleet storage areas for buses, and outdoor liquid container storage.
- Drawings showing the location of stormwater control measures and the storm system.
- Details on the proposed stormwater control measures.
- Operation & Maintenance (O&M) requirements.
- Supporting information
 - o Calculations used for designing all components of the stormwater management systems.
 - Total Suspended Solids (TSS) design removal rates and supporting manufacturer documentation, if applicable.

• Geotechnical report including soil boring and infiltration test data.

The project team [Architecture, Engineering & Construction, Other Project Manager, Project Developer and/or Contractors] shall develop the post-construction plan for stormwater management in accordance with this guideline and the NPDES permit.

Water Quality Treatment Volume Standard

The minimum treatment volume standard **must** be either:

- a. Treat the first one (1) inch of runoff from the entire site. **OR**
- b. Treat the runoff generated from ninety percent (90%) of all runoff-producing storms for the project site, as summarized in MDEQ's memo dated March 24, 2006 <u>https://www.michigan.gov/documents/deq/wrd-hsu-ninety-percent_557709_7.pdf</u>

Total Suspended Solids

The treatment methods must be designed on a site-specific basis to achieve the following:

a. A minimum of eighty percent (80%) removal of total suspended solids (TSS), as compared with uncontrolled runoff.

OR

b. Discharge concentrations of TSS not to exceed 80 milligrams per liter (80mg/L).

A minimum treatment volume standard is not required where site conditions are such that TSS concentrations in storm water discharges will not exceed 80mg/L.

Channel Protection Criteria

The channel protection criteria must maintain post-development site runoff volume and peak flow rate at or below existing levels for all storms up to the 2-year, 24-hour event. "Existing levels" means the runoff volume and peak flow rate for the last land use prior to the planned new development or redevelopment. More restrictive channel protection criteria may be utilized on a case-by-case basis, as appropriate.

Site Plan Review

This policy is to establish a requirement to submit a site plan for review as required by the EGLE NPDES Stormwater Discharge Permit and ensure that water quality objectives, erosion and sediment control requirements, and BMP maintenance are considered to the maximum extent practicable.

Jackson Public Schools shall evaluate proposed construction activities to determine:

- If the activity meets the criteria of a development or redevelopment project with an earth disturbance greater than or equal to 1 acre, or part of a common plan of development resulting in a development or redevelopment activity greater than or equal to 1 acre in size.
- Does the development or redevelopment project discharge to waters of the state, or to a county, city, or township MS4.

If the development or redevelopment project discharges directly to waters of the state, Jackson Public Schools shall comply with the post-construction standards outlined in this SWMP.

If the development or redevelopment project discharges to a regulated county, city, or township MS4, Jackson Public Schools shall submit the site plan for review and approval. Site plan approval by the county, city, or township of an equivalent post-construction standard ensures acceptable compliance with the Jackson Public Schools NPDES MS4 Stormwater Discharge Permit. Jackson Public Schools shall obtain and maintain a copy of the site plan approval *document*.

If the development or redevelopment project discharges to a county, city, or township MS4 that is not regulated or require site plan review, Jackson Public Schools shall comply with the post-construction standards outlined in this SWMP.

Operations & Maintenance Plans

All structural and vegetative stormwater control measures installed as a requirement under this section of the permit shall include a plan for maintaining maximum design performance through long-term operation and maintenance.

Enforcement

The Jackson Public Schools Stormwater Program Manager will administer and enforce the stormwater management program, including maintaining procedures, guidance, information, etc. to aid district staff and contractors in complying with the post-construction requirements for stormwater management.

Appendix C

SEMCOG Posters & Illicit Discharge Poster

Creation Date: September 14, 2021 Revision Date: August 16, 2023

How to Spot Illicit Discharges

Sanitary Sewer Discharge

Observations:

- Sanitary Debris
- Staining on pipe
- Heavy Foam
- Gray or Discolored Water
- Odors (sewage, chlorine, rotten eggs and detergents)

Illegal Dumping, Spills, or Floor Drain Connection Observations:

- Oily Sheen
- Trash, non-sanitary debris
- Petroleum odors
- Stained sediment, rocks, and vegetation
- Vehicle bay washout



What to Report

- Spills and Contamination to lakes, river and streams
 District Stormwater Coordinator, MDEQ, Environmental Health Department, Drain Commissioner's
 Office
- Suspicious dumping or discharges from pipes
 District Stormwater Coordinator, MDEQ, Environmental Health Department, Drain Commissioner's
 Office
- Sewage on the ground or in surface water District Stormwater Coordinator, Environmental Health Department
- Large number of dead fish in waterways
 District Stormwater Coordinator, MDEQ, Environmental Health Department
- Failing or leaking septic systems District Stormwater Coordinator, Environmental Health Department
- Construction site soil erosion to waterways
 District Stormwater Coordinator, local SESC Enforcing Agency
- Polluted runoff from storage piles/dumpsters entering waterways
 District Stormwater Coordinator, Environmental Health Department, Drain Commissioner's Office



Agricultural Runoff, Fertilizers, or Sanitary Sewer Waste Observations:

- Algae growth at or near outlet
- Heavy vegetation at or near outlet





Important Numbers

Emergency Call 9-1-1

- Pollution Emergency Alerting System (PEAS)
 24 Hour Spill Hot Line Arch Environmental Group
- 1-800-292-4706 1-248-522-2821

1-800-662-9278

- Non-Emergency
 - School District Contact Number
 - DEQ Environmental Assistance Center
 - Eaton County Drain Commissioner
 Genesee County Drain Commissioner
 Livingston County Department of Public Health
 Macomb County Public Works
 Oakland County Water Resources
 Washtenaw County Drain Commissioner
 1-800-292-4706
 1-810-732-2940
 1-517-546-9858
 1-877-679-4357
 Oakland County Water Resources
 1-248-858-0958
 Washtenaw County Drain Commissioner
 - Wayne County Department of the Environment
 1-888-223-2363

KEEP OUR WATER GLEAN

onewater



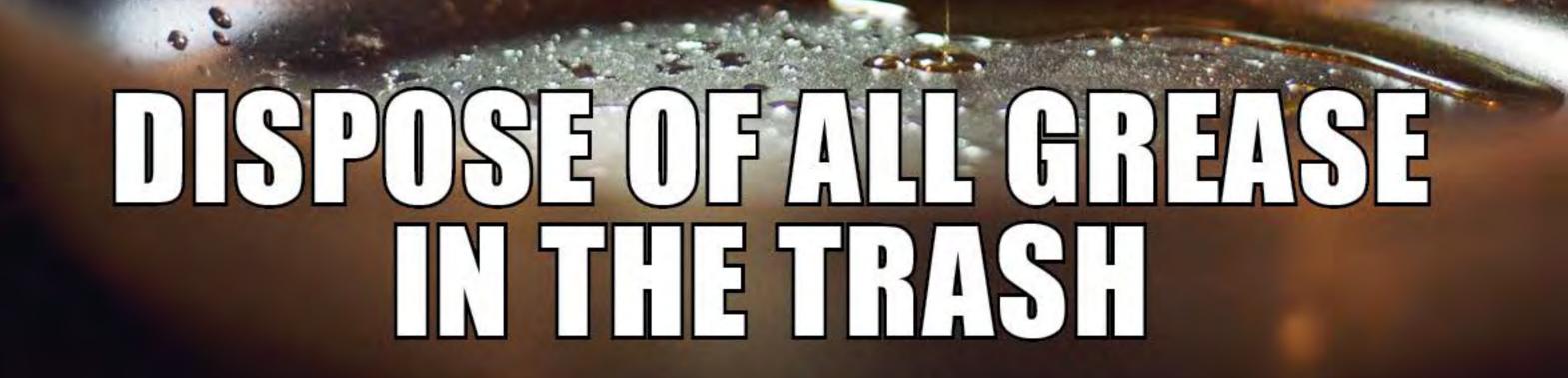
KEEP OUR WATER GLEAN

onewater



BUILD ON WATER QUALITY

onewater



BULD ON WATER QUALITY

onewater



Remember, you're not just washing your car



Practice good car care

Did you know there are over four million vehicles in Southeast Michigan? Practicing good car care helps protect our lakes and streams.

How? Storm drains and roadside ditches lead to our lakes and streams. So, if motor fluids or dirty water from washing our cars are washed or dumped into the storm drain, it pollutes our local waterways.

What can you do? Simple. Keep your car tuned and fix leaks promptly, recycle used motor oil and other fluids, take your car to the carwash or wash your car on the grass.

Find out more at www.semcog.org.

Brought to you by the Southeast Michigan Partners for Clean Water. Support provided by SEMCOG, the Southeast Michigan Council of Governments (313-961-4266) and the Rouge River National Wet Weather Demonstration Project.

Remember, you're not just fertilizing your lawn



Fertilize sparingly and caringly

Storm drains found in our streets and yards empty into our lakes and streams. So, when we fertilize our lawn we could also be fertilizing our lakes and streams. While fertilizer is good for our lawn, it's bad for our water. Fertilizer in our lakes and streams causes algae to grow. Algae can form large blooms and uses up oxygen that fish need to survive. With 1.5 million homes in Southeast Michigan, all of us need to be aware of the far-reaching effects of our lawn care practices.

What can you do? Simple. Use a no or low phosphorus fertilizer, select a slow release fertilizer where at least half of the nitrogen is water insoluble (check the ingredients on the label), keep fertilizer away from lakes, streams, and storm drains, and sweep excess fertilizer back onto your lawn. Not only will our lakes and streams thank you, but so will your pocketbook!

Find out more at www.semcog.org.

Brought to you by the Southeast Michigan Partners for Clean Water.

Seven Simple Steps to Clean Water



Help keep pollution out of storm drains

Pertilize sparingly and caringly.

Carefully store and dispose of household cleaners, chemicals, and oil

Clean up after your pet

5 Practice good car care

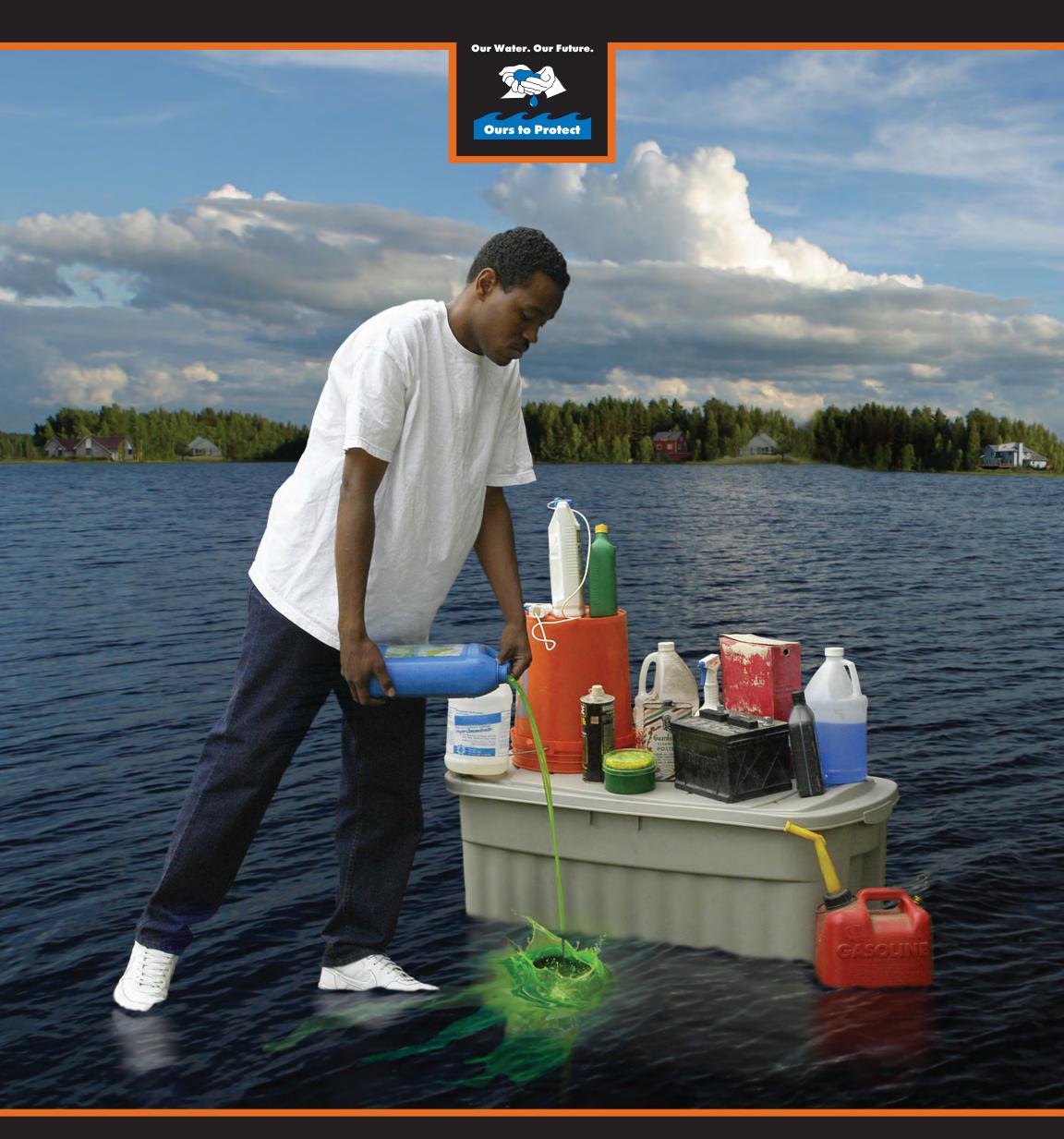


Our Water. Our Future. Ours to Protect.

Find out more at www.semcog.org.

Brought to you by the Southeast Michigan Partners for Clean Water.

Remember, it's not just toxic to you



Carefully store and dispose of household cleaners, chemicals, and oil

Did you know that many **household products are dangerous to our pets**, **kids**, **and the environment?** These materials get into our lakes and rivers if washed or dumped into a storm drain or roadside ditch.

What can you do? Simple.

Proper disposal is key. Take household cleaners, pesticides, gasoline, antifreeze, used oil, and other dangerous products to your community's household hazardous waste collection day. Contact your community for more information on these events.

Find out more at www.semcog.org.

Brought to you by the Southeast Michigan Partners for Clean Water.

Remember, you're not just getting rid of weeds and pests



Choose earth-friendly landscaping

Did you know you can **protect your kids, pets, and the environment** from the harmful effects of herbicides & pesticides by choosing earth-friendly landscaping? These chemicals wash off our lawns and gardens into our storm drains, which lead to our lakes and rivers.

What can you do? Simple.

Spot treat for specific pests and weeds or remove by hand. Mulch around plants. Water your lawn only when it needs it. Attract butterflies and birds by adding plants that are native to Southeast Michigan.

Find out more at www.semcog.org.

Brought to you by the Southeast Michigan Partners for Clean Water.

Remember, you're not just walking the dog



Clean up after your pet

Did you know that pet waste has bacteria that makes our lakes and rivers unsafe for swimming and other recreational activities? That happens when **pet waste left on sidewalks or yards gets washed into storm drains** or roadside ditches that lead directly to our lakes and rivers.

> What can you do? Simple. No matter where you are **dispose of your pet's waste promptly** in the toilet or trash.

Find out more at www.semcog.org.

Brought to you by the Southeast Michigan Partners for Clean Water. Support provided by SEMCOG, the Southeast Michigan Council of Governments (313-961-4266) and the Rouge River National Wet Weather Demonstration Project.

Remember, it ALL drains to our lakes and rivers



Keep pollution out of storm drains

Storm drains and roadside ditches lead to our lakes and streams. So, any oil, pet waste, leaves, or dirty water from washing your car or other outside activities that enters a storm drain gets into our lakes and streams.

How can you help? Simple. Use a broom instead of a hose to clean your driveway. Keep leaves, grass clippings, and trash away from the storm drain, and never dump motor oil, pet waste, or dirty, soapy water down the storm drain. Remember, only rain in the drain!

Find out more at www.semcog.org.

Brought to you by the Southeast Michigan Partners for Clean Water.

Vehicle Fluid Tips



SEMCOG....Reinventing Southeast Michigan

Southeast Michigan Council of Governments



Keeping it deen

Municipal operations for clean water

Dumpsters and loading docks

Keep dampter lide closed and impact for leake. Never place hazardous waster in a dampter or trade bin.

terre para manana anna o a mulant a m

Do not hose out the dampater interior or leading docks. Apply absorbent over any fields pilled in the dumpater. Check leading and urleading equipment regularly for leaks.





Vehicle and equipment fueling

Look for and report looks on whicher when adding fad.

Use secondary containment when transforing fiel from the tank track to the fiel tank. Cover norm durins in the vicinity during transfor. Place spill chanup materials where they are readily according.

Clean up small spills with absorbent materials rather than besing down the axes. Remove the absorbent materials promptly and dispose of in the track.

Vehicle and equipment washing

Take whicles to a commercial car wash. These facilities collers and treat the waterwater. If you wash vehicles onsite, wash equipment and vehicles ONLY in designated facilities where the wash water drains

it you want venices origin, want equipment and venices UNLT in designated technic where the want water drama to the sanitary aswer system or is collected and mcycled.

Clean parts in a self-contained unit. Make now that the parts worker is not connected to the more drain. Use stears cleaning and pressure working instead of solveris.





Vehicle parking and equipment storage

Impact parking and storage areas for leaks.

Store which and equipment inside or under cover to provert periphration from working pollutants into the stores duits. Store which on a paved area that you can street sweep regularly to ansore drips, lack, and dirt. Date all high from worked can when they arrive to prevent any spills or lack.

Vehicle and equipment maintenance



Koop accurate maintenance logs and up-to-date inventory of materials. Referen which maintenance in covered, designated service bays where apile and kalo can be properly contained.

Recycle spent fluids. Do not durap down the durin or in the truch.

Avoid basing down your work areas. Use says for small spills, a damp mop for general cleanup, and dry absorbent for larger spills.

Chemical management – preventing leaks and spills



Fit tail and chemical storage containers with accordary containment seascuare to contain spilled materials. Store materials fodore: If you do have conface mongo areas, loop them convent to prevent min from contacting the material. Cover and/or contain, through ensisten control practices, intelphon of new materials (e.g., adv, rol) to provent polluted non-research larger: storage areas registedy for spills and lask. Keep containers and other manage devices in pool condition without lasky searce or correstion.

Chemical management - when a spill occurs

If a spill occurs, so iffy the key spill response personsel. If the matrial is intransione, contact the local fire department. Never work a spill into the storm drain or leave it without cleaning it up. Contain spills and black the resulty norm drain. Clean up non-hazardous spills by using a ray, damp cloth, or shorteent matrials.





SEMCOG Fundar presided in part by the Range Raw National Wer Weather Documentation Deriver grave #RE9997-83-96 and 20MDNL for Sections Mildian Council of Community.

Aggregate Storage Tips



SEMCOG....Reinventing Southeast Michigan

Southeast Michigan Council of Governments

Appendix D

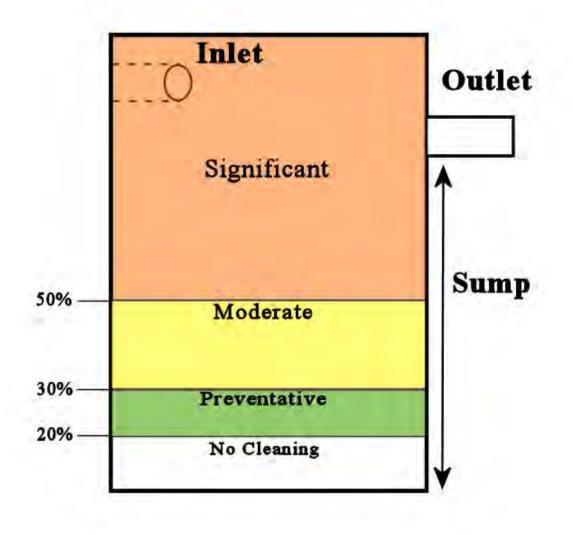
Inspection Field Worksheets

Creation Date: September 14, 2021 Revision Date: August 16, 2023

Routine Storm Sewer System Inspection Table

Building: Inspectors:												I		Client: Start Date: ction Type:								
# O	Type	Inspected	Standing Water	Color	Odor	Structure Staining	Suds	Oil Sheen	Bacterial Sheen	Sewage	Algae	Slimes	Abnormal Vegetation	Flow Observed	Velocity of Flow	Color of Flow	Blockages	Erosion	Needs Cleaning?	Structural Issues	Structural Trend	Stenciled





"Storm Structure ID" Ex. ADM-01.CB(ADM represents building such as Admin, 01=number of structure, and CB=structure type.	# Q	Inspectors:	Building:
Type of Structure (Catch Basin, Manhole, Pond, Swale, Pipe, etc.)	Type	"Inspe	
Was it inspected this round. (Yes or No)	Inspected	ector	
Was there standing water in the structure? (Yes or No)	Standing Water	's Na	
What color is the standing water if present? (Clear, Cloudy, Brown, White, etc.)	Color	me"	
Does the basin have a noticeable odor? (Yes or No)	Odor		Scho
Is there staining on the interior of the structure? (Yes or No) This could be staining caused by a current illicit discharge, remnants of a past illicit discharge, or natural staining from iron oxidizing bacteria etc.	Structure Staining		ol/Locati
Are there suds present in the structure (organic suds - caused by aeration/natural causes, soapy suds, or no)	Suds		on"
Is there oil sheen present on the water surface in the structure? (Significant - indicative of an illicit discharge, OR No)	Oil Sheen		
Is there bacterial sheen on water surface of the structure? (Yes or No) - We ask this to confirm that a sheen in a photo was bacterial instead of oil.	Bacterial Sheen		
Is evidence of sewage present in water in structure? (toilet paper, poo, etc.) - (Yes or No)	Sewage		
Is Algae growth present in the structure? (Yes or No)	Algae		
Are there slimes present in the structure? (Yes or No)	Slimes	I	
Is there abnormal veg. growth in structure? (Yes or No)	Abnormal Vegetation		
Was there water flow observed in the structures pipes? (No, Trickle(light flow), Intermittent(Indicative of a sump), or continuous(usually occurs during/after a rain event))	Flow Observed	Start Date: ction Type:	Client:
What is the estimated velocity of the water flow if present? (N/A, Trickle, slow, moderate, or substantial) Substantial occurs during or after a rain event.	Velocity of Flow		
What is the color of the flow within the structure? (N/A, Brown, Yellow, Clear, Cloudy, etc.) Used to be sure there is no evidence of illicit activities during or after rain events.	Color of Flow	art Date ne Storn	
Are any pipes blocked? (Yes or No) This would be evident if there was a visible blockage in a pipe OR if the water level in the structure is high.	Blockages		Schoo
Is there erosion occurring around the structure? (Yes or No)	Erosion	er In	l Dis
Does the structure have sediment build-up in the sump or bottom? (Significant - for 50% full sump depth below outpipe or higher, moderate - for 30% to 50% sump depth below outpipe, preventative - for 20% to 30% sump depth, OR no cleaning for below 20%. Or Cleaned)	Needs Cleaning?	"End D spection or	
Are there any issues with the structure itself and how severe is it? - This could be for cracking on the interior/exterior, sink holes, erosion, etc. (Significant, Moderate, Preventative, or None, Repaired-since last inspection, or Partial Repair)	Structural Issues		at all
If there is a structural issue, is the structural issue worsening since the previous inspection? (Stable - appears the same/hasn't worsened, Improving - appears better/usually for a repair or for erosion lessening, OR deteriorating - the condition has worsened)	Structural Trend		
Does the structure have a "No Dumping - Drains to River" stencil in place? (No - means it needs one, Yes - it has one, Update - it has one, but it is fading, OR N/A - the structure is in the grass)	Stenciled		

Routine Storm Sewer System Inspection Table



Pond Inspection Form

Building:	Client:
Inspectors:	
Date of Inspection:	
Structure Information:	
Structure ID:	Number of Inlet(s) (OP):
Pond Type:	Number of Outlet(s) (DR):
Age of Pond:	Number of Stabilized Outlets (SO):
Inlet(s)/Outlet(s) (OP/DR) Observations:	
Are there any structural	
issues with the	Structural
inlet(s)/outlet(s) (OP/DR)?	Comments:
Is there excess sediment	Are the inlet(s)/outlet(s)
buildup at the inlet(s)/outlet(s)	(OP/DR) below the water
(OP/DR)?	level?
Are the inlet(s)/outlet(s) (OP/DR) accessible or overgrow	n with vegetation?
Pond Structure Observations:	
Is there grass along the sides of the	Is there excess vegetation along the
pond cut between 4" and 9"?	sides of the pond (not grass)?
Are there signs of erosion along the	
side slopes, berms and/or emergency	Is there evidence of animal burrows
spillway?	around the sidewalls of the pond?
Pond Vegetation Observations:	
How much emergent vegetation is	Vegetation
present in the pond bottom?	Comments:
Is emergent vegetation made up of native or invasive species?	Is there decomposing vegetation or organic matter decaying on the pond bottom?
General Pond Observations:	
Is the pond free of trash/other debris?	Types of trash/debris present:
General Comments:	

Arch Environmental Group 37720 Interchange Drive, Farmington Hills MI 48370

ID #IEn	nter structure ID				
	elect from the following options: Retention Pond, Detention Pond, Retention Basin, Detention Basin				
	elect Yes or No. If unable to inspect the structure, please make a comment under "General Comments" as to why				
Inspected	you could no inspect the structure				
	his can be found using the history function in Google Earth for the site. Remember, this is an approximate age				
Approximate Age of the Pond	etermination. We are interested in this information because pond life spans are between 15 and 20 years				
	elect the number of inlet pipe(s) from the drop down menu				
	elect the number of outlet pipe(s) from the drop down menu				
	elect the number of stabilized outlet(s) from the drop down menu				
	kamples include detached pipes, missing riprap around the inlet(s), missing stone around DR, etc.				
	elect one of the following options: None, Preventative, Moderate, Significant, or Repaired.				
Are there any structural issues with the inlet(s)/outlet(s) (OP/DR)? Pre					
	loderate = signs of deterioration present but does not hinder the function of the structure				
	gnificant = deterioration has hindered the function of the structure as it was designed				
-	escribe the structural issues observed				
	camples include pipes that are buried under sediment or sediment levels higher than the bottom of the inlet(s)/outle				
	nis could be a sign that the MS4 is backed up causing water to back up into the pond. If you suspect that, please				
	vestigate if that is the case. If the MS4 is not backed up, this could be a sign that the pond is not functioning as				
	esigned				
Are the inlet(s)/outlet(s) (OP/DR) accessible or overgrown with vegetation	<u> </u>				
(native or invasive)?	vergrown vegetation at the inlet(s)/outlet(s) can prevent water from freely flowing in/out of the structure				
	nis is an ideal height range of grass around the pond to stabilize the sidewalls of the pond and to prevent erosion				
Is the grass along the sides of the nond cut between 4" and 9"?	round the side walls of the pond				
	· · · · · · · · · · · · · · · · · · ·				
Is there excess vegetation along the sidewalls of the pond (not grass)	oes the area look overgrown and unkept? Select from the following options: Yes or No				
Are there signs of erosion along the side slopes, berms and/or emergency					
overflow?	elect from the following options: Yes or no				
Is there evidence of animal burrows around the sidewalls of the pond? Sel	elect from the following options: Yes or No. Animal burrows can destabilize the sidewalls of the pond				
Sel	elect from the following options: 0%-25%, 25%-50%, or 50%-100%. Use your best judgement to determine this				
pe	ercentage. Ideally, the pond bottom should be made up of around 25% emergent vegetation				
How much emergent vegetation is present in the pond bottom?	nergent Vegetation Definition: Aquatic plants that grow with their roots under water but their leaves and stems				
ab	pove the surface of the water				
Is emergent vegetation made up of native or invasive species (phragmites or Sec	ee reference page in the Pond Inspection Reference page for photos of Phragmites and Purple Loosestrife to see if it				
purple loosestrife)? is p	present.				
Vogetation Commente If t	there are invacive species present, please write which ones are present				
vegetation comments in t	there are invasive species present, please write which ones are present				
Sel	elect from the following options: Yes, No, or Unknown. If you can tell, great, this could have impact on DO or could				
Is there vegetation or organic matter decaying on the pond bottom?	ause flow issues through the pond				
Sel	elect from the following options: Yes or No. This can include trash/inorganic debris or organic material (like grass				
Is the pond free of trash/other debris?	ippings, leaves, etc.)				
T	plast from the following options: Track Natural Dahris (arg-ni-matavi-1) N/A				
iypes of trash/debris present Ser	elect from the following options: Trash, Natural Debris (organic material) or N/A				
General Comments Ple	ease add any other comments that you feel are important to note about the pond condition				

Client:				Stream Name:		
Inspectors:				Site :		
		1		Date:		
Weather i	n the past 24 hours:			Current Weather:		
Field Analysis:				· · · · ·		
Uptream Turbidity:		NTU	Upstream Temprature:		Upstream pH:	
Downstream Turbidity:		NTU	Downstream Temprature:		Downstream pH:	
Physical Characterization						
In-Stream Characteristi	ics		Streambank & Chan	nel Characteristics		
	ools:	N/A	Depth of Run:		Stream Erodible Soils:	
	Runs:	N/A	Depth of Pool(s):		Bank Modifications:	
	ffles:	N/A	Width of Stream:		Condition of Bank:	
Stream Bed Featu			Stream Velocity:		Bank Slope:	
% of Embedded Bot			Vegitative Cover:			
Organic Mater Large Wooded De			Shape of Channel:			
Water Appeara			Additional Commen	its:		
Water C						
Watershed / Biological	Characteristics:		Stream Photos:			
			1			
Wildlife Around Stre			41			
Fish In Stre						
Aquatic Plants in Stre						
Extent of A	-					
Potential Stream Imp	pact:		1			



Screening Inspection Log

Building:				Client:				
Inspectors:				Date				
			Inspecti	on Type:				
Structure Information:								
ID Number:	Structure Type				Lat	:	Long:	
Discharge Point/Outfall:	Location:							
Outfall Dimensions								
Observations:								
Standing Water Characteristics	<u>Flow</u>	<u>Characteristics</u>				<u>Maintenance</u>		
Standing Water:	Flo	w Observed:				Cleaning	:	
Color:	Sou	urce of Flow:				Blockages	5	
Odor:	Velc	city of Flow:				Structural Issues	5	
Suds:	C	olor of Flow:				Structural Trend		
Staining:		Flow Odor				Stenciling	:	
Oil Sheen:					-			
Sewage:	<u>Addit</u>	ional Comment	<u>:s:</u>					
Bacterial Sheen:								
Floatables:								
Slimes:								
Abnormal Growth:								
Sample ID And Information		Field Analysis:	Results:		Initials:	Photo ID:		
Sample Collected?		pH:		oH units				
Permit Cycle:		Temperature:		Celsius				
Last Rain Event:		Surfactants:		mg/L				
Current Weather:		Ammonia:		mg/L				
Screening Location Type:		Chlorine:		mg/L				
Other Screening Activities		Turbidity:		NTU				
Conducted:		Conductivity:	ι	uohm/cm				
Outfall Characterization:								
		Equipment Calil						
Sample sent to Lab:		Date:	Cal. By:					Phone: (248) 426-013



TMDL Screening Inspection Log

Building:					Client:				
Inspectors:					Date				
					Inspection Type:				
Structure Information:									
ID Number:		Structure Type				Lat	:	Long:	
Туре:		Location:						201181	
Outfall Dimensions		Location.							
Observations:									
Standing Water Characteristic	cs	Flow	/ Characteristics						
Standing Water:			ow Observed:			1			
Color:			urce of Flow:						
Odor:			ocity of Flow:						
Suds:			Color of Flow:						
Staining:			Flow Odor						
Oil Sheen:						1			
Sewage:		Addi	itional Comments:						
Bacterial Sheen:									
Algae:									
Slimes:									
Abnormal Growth:									
Sample ID And Information			Lab Analysis:	Results:	TMDL Threshold:	Units:	Photo ID:		
Sample ID:			pH:		6.5 - 9	pH units			
Time Collected:			Temperature:		N/A	Celsius			
Last Rain Event:			E. coli:		1000	CFU per 100mL			
Current Weather:			Total Phosphorus:		Watershed Dependent	ug/L			
Screening Location Type:			Total Suspended Solids	:	Watershed Dependent				
Total Rainfall (Inches):			Dissolved Oxygen:		Watershed Dependent	mg/L			
			Other:						
Outfall Characterization:									
Sample sent to Lab:									



DMB-SESC_Eform

SOIL EROSION AND SEDIMENTATION CONTROL (SESC)

INSPECTION REPORT

DEPARTMENT OF MANAGEMENT AND BUDGET

INFRASTRUCTURE SERVICES, DESIGN AND CONSTRUCTION DIVISION

Second Floor, Stevens T. Mason Building

P.O. Box 30026, Lansing, Michigan 48909 This report is required to document soil erosion and sedimentation control on State of Michigan projects. (Authority: Part 91, PA 451)

REPORT NUMBER	SESC PERMIT NUMBER	REPORT DATE		PERIOD (FROM WHEN - TO WHEN)
INDEX NUMBER(S)	AGENCY NUMBER	FILE NUMBER	CONTRACT NUMBER	DEPARTMENT/UNIVERSITY/COLLEGE
PROJECT NAME				
CONTRACTOR				
PROFESSIONAL				
A. REASON FOR	INSPECTION:	Regular Inspection	Post-Rain	Event Inspection (explain below)
		Weekly Daily		
B. CURRENT WE	ATHER CONDITIONS:			
Sunny	Cloudy	Partly Cloudy	Windy	Temperature
Sumy			whity	
Precipitation:	Rain Snow	v Sleet	Hail	Other (explain)
		1 . 1 .1 \		
C. DESCRIBE SEV	VERE WEATHER (if app	blicable):		
D. DESCRIBE WE	EATHER CONDITIONS	SINCE LAST INSPEC	CTION (Date of Last Ins	pection):
E. ARE THE CON	TROLS INSTALLED A	CCORDING TO THE	PLANS AND SPECIFI	CATIONS? Yes No (Describe):
F. ARE THE CON	TROLS IN PLACE FUN	CTIONING PROPER	LY? Yes No	(Describe):
				(
G. ARE THE CON	TROLS BEING PROPE	RLY MAINTAINED?	Yes No (Desc	ribe):
			105 106 (D050	
1				

H. INDICATE THE SESC CONTROLS IN PLACE ON SITE (According to the DMB SESC Keying System):

Best Management Practice	Present (check)	Number or Lin Ft of Controls	Best Management Practice	Present (check)	Number or Lin Ft of Controls
Erosion Controls:	. ,		Erosion/Sediment Controls:		
(E1) Selective Grading & Shaping			(ES31) Check Dam		
(E2) Grubbing Omitted			(ES32) Stone Filter Berm		
(E3) Slope Roughening & Scarification			(ES33) Filter Rolls		
(E4) Terraces			(ES34) Sand Fence		
(E5) Dust Control			(ES35) Dewatering		
(E6) Mulch			(ES36) Diversion Dike/Berm		
(E7) Temporary Seeding			(ES37) Diversion Ditch		-
(E8) Permanent Seeding			(ES38) Cofferdam/Sheet Pilings		-
(E9) Mulch Blankets			(ES39) Streambank Biostabilization		-
(E10) Sodding	H		(ES40) Polymers		-
(E11) Vegetated Channels			(ES41) Wattles		-
(E12) Rip Rap			Sediment Controls:		
(E13) Gabion Walls			(S51) Silt Fence		
(E14) Energy Dissipator			(S52) Catch Basin Sediment Guard		-
(E15) Temporary Slope Drain			(S53) Stabilized Construction Access		-
(E16) Slope Drain	П		(S54) Tire Wash		-
(E17) Cellular Confinement Systems			(S55) Sediment Basin		
(E18) Plastic Sheets			(S56) Sediment Trap		
(E19) Temporary Drainageway/ Stream Crossing			(S57) Vegetated Buffer/Filter Strip		
(E20) Temporary Bypass Channel			(S58) Inlet Protection Fabric Drop		
(E21) Live Staking			(S59) Inlet Protection Fabric Fence		
OTHER			(S60) Inlet Protection Stone		
I. WHAT CORRECTIVE ACT	IONS SHOL	ILD BE TAKEN BY	THE CONTRACTOR?		

J. BY WHAT DATE MUST THESE ACTIONS BE IMPLEMENTED:

K. OBSERVATIONS / COMMENTS:

Signature of Inspector

Date

cc:

Appendix E

Property Structural Controls Inventory, Inspection, & Maintenance Schedule

Jackson Public Schools – Cascades School

Structural Control Inventory, Inspection, & Maintenance Schedule

Facility	Priority Level of Potential Discharge (High, Medium, Low)	Type of Structural Control	Number of Controls	Inspection/Maintenance Schedule
Cascades School 1200 South Wisner Street, Jackson, Michigan 49203	Low	Catch Basin/Manholes	13	Inspect Annually, Clean Once per Permit Cycle or if Build-Up of Accumulated Solid Material is Between 30 and 50% of the Total Sump Depth.
		Detention pond	1	Inspect Annually, Maintain as Needed
		Hydrodynamic Separator	1	Inspect Annually, Maintain as Needed
		Open Pipe Outlets	2	Inspect Annually, Maintain as Needed
		Drainage Receptor	1	Inspect Annually, Maintain as Needed

Jackson Public Schools – Dibble Elementary School Structural Control Inventory, Inspection, & Maintenance Schedule

Facility	Priority Level of Potential Discharge (High, Medium, Low)	Type of Structural Control	Number of Controls	Inspection/Maintenance Schedule
Dibble Elementary School 3450 Kibby Road, Jackson MI, 49203	Low	Catch Basin/Manholes	6	Inspect Annually, Clean Once per Permit Cycle or if Build-Up of Accumulated Solid Material is Between 30 and 50% of the Total Sump Depth.
		Open Pipe Outlet	2	Inspect Annually, Maintain as Needed
		Retention Basin	1	Inspect Annually, Maintain as Needed

Jackson Public Schools – Hunt Elementary School, Educational Service Center, and Transportation Facility Complex

Structural Control Inventory, Inspection, & Maintenance Schedule

Facility	Priority Level of Potential Discharge (High, Medium, Low)	Type of Structural Control	Number of Controls	Inspection/Maintenance Schedule
Hunt Elementary School/ Educational Service Center 1143 N Brown St.	High	Catch Basin/Manholes	20	Inspect Annually, Clean Once per Permit Cycle or if Build-Up of Accumulated Solid Material is Between 30 and 50% of the Total Sump Depth.
Jackson, MI 49202 Transportation Facility		Open Pipe Outlet	6	Inspect Annually, Maintain as Needed
1401 N Brown St. Jackson, Mi 49202		Drainage Receptor	1	Inspect Annually, Maintain as Needed
		Basin Drain	6	Inspect Annually, Maintain as Needed
		Trench Drain	2	Inspect Annually, Maintain as Needed
		Detention Pond	1	Inspect Annually, Maintain as Needed
		AST	3	Inspect as part of the SWPPP 6 Month Comprehensive Inspection

Jackson Public Schools – Jackson High School and Administration Building Complex Structural Control Inventory, Inspection, & Maintenance Schedule

Facility	Priority Level of Potential Discharge (High, Medium, Low)	Type of Structural Control	Number of Controls	Inspection/Maintenance Schedule
Jackson High School and Administration Building Complex	Medium	Catch Basin/Manholes	61	Inspect Annually, Clean Once per Permit Cycle or if Build-Up of Accumulated Solid Material is Between 30 and 50% of the Total Sump Depth.
544 Wildwood Avenue, Jackson, Michigan 49201		Infiltration Basin	8	Inspect Annually, Maintain as Needed
		Flow Splitter	1	Inspect Annually, Maintain as Needed
		Trench Drain	2	Inspect Annually, Maintain as Needed
		Open Pipe Outlet	3	Inspect Annually, Maintain as Needed
		Stabilized Outlet	1	Inspect Annually, Maintain as Needed

Jackson Public Schools – John R. Lewis Elementary School Structural Control Inventory, Inspection, & Maintenance Schedule

Facility	Priority Level of Potential Discharge (High, Medium, Low)	Type of Structural Control	Number of Controls	Inspection/Maintenance Schedule
John R. Lewis Elementary School 154 W. Clark Street Jackson, Michigan 49203	Low	Catch Basin/Manholes	3	Inspect Annually, Clean Once per Permit Cycle or if Build-Up of Accumulated Solid Material is Between 30 and 50% of the Total Sump Depth.
		Open Pipe Outlet	6	Inspect Annually, Maintain as Needed
		Drainage Receptor	3	Inspect Annually, Maintain as Needed
		Basin Drain	7	Inspect Annually, Maintain as Needed
		Retention Basin	2	Inspect Annually, Maintain as Needed
		Stormwater Conveyance Channel	2	Inspect Annually, Maintain as Needed
		Infiltration Basin	2	Inspect Annually, Maintain as Needed

Jackson Public Schools – Montessori Center

Structural Control Inventory, Inspection, & Maintenance Schedule

Facility	Priority Level of Potential Discharge (High, Medium, Low)	Type of Structural Control	Number of Controls	Inspection/Maintenance Schedule
JPS Montessori Center 820 Bennet Street, Jackson, Michigan 49202	Low	Catch Basin/Manholes	4	Inspect Annually, Clean Once per Permit Cycle or if Build-Up of Accumulated Solid Material is Between 30 and 50% of the Total Sump Depth.
		Infiltration Basin	2	Inspect Annually, Maintain as Needed

Jackson Public Schools – Middle School at Parkside Structural Control Inventory, Inspection, & Maintenance Schedule

Facility	Priority Level of Potential Discharge (High, Medium, Low)	Type of Structural Control	Number of Controls	Inspection/Maintenance Schedule
Middle School at Parkside 2400 4 th Street, Jackson, MI 49203	Low	Catch Basin/Manholes	57	Inspect Annually, Clean Once per Permit Cycle or if Build-Up of Accumulated Solid Material is Between 30 and 50% of the Total Sump Depth.
		Drainage Receptor	2	Inspect Annually, Maintain as Needed
		Infiltration Basin	6	Inspect Annually, Maintain as Needed
		Stormwater Conveyance Channel	1	Inspect Annually, Maintain as Needed
		Trench Drains	2	Inspect Annually, Maintain as Needed

Jackson Public Schools – Northeast Elementary School Structural Control Inventory, Inspection, & Maintenance Schedule

Facility	Priority Level of Potential Discharge (High, Medium, Low)	Type of Structural Control	Number of Controls	Inspection/Maintenance Schedule
Northeast Elementary School 1024 Fleming Avenue, Jackson, Michigan 49202	Low	Catch Basin/Manholes	12	Inspect Annually, Clean Once per Permit Cycle or if Build-Up of Accumulated Solid Material is Between 30 and 50% of the Total Sump Depth.
		Infiltration Basins	3	Inspect Annually, Maintain as Needed

Jackson Public Schools – Sharp Park Academy Structural Control Inventory, Inspection, & Maintenance Schedule

Facility	Priority Level of Potential Discharge (High, Medium, Low)	Type of Structural Control	Number of Controls	Inspection/Maintenance Schedule
Sharp Park Academy 766 Park Rd, Jackson, Michigan 49203	Low	Catch Basin/Manholes	2	Inspect Annually, Clean Once per Permit Cycle or if Build-Up of Accumulated Solid Material is Between 30 and 50% of the Total Sump Depth.
		Open Pipe Outlet	2	Inspect Annually, Maintain as Needed
		Drainage Receptor	1	Inspect Annually, Maintain as Needed
		Infiltration Basin	5	Inspect Annually, Maintain as Needed
		Stormwater Conveyance Channel	1	Inspect Annually, Maintain as Needed

Appendix F

Contractor Oversight & Employee Training Documentation



IDEP/PPGH STORMWATER TRAINING RECORD

Client	Location	Date
Jackson Public Schools		
Permit Number: In-Process		

Illicit Discharge Elimination Program (IDEP): Training on techniques for identifying illicit discharges and connections, Training on procedures for reporting, responding to, and eliminating an illicit discharge or connection and the proper enforcement response.

Pollution Prevention & Good Housekeeping: Training on BMPs that are important such as good housekeeping, spill response, materials storage and handling, landscape maintenance, street maintenance, fleet maintenance, and garages.

Employee Name	Employee Signature	Job Title/Department
Instructor Name	Instructor Signature	
Arch Environmental Group, Inc. 248-426-0165		

Jackson Public Schools (JPS) shall implement the procedure requiring contractors hired by the JPS to perform municipal operation and maintenance activities that comply with the JPS pollution prevention and good housekeeping program and contractor oversight to ensure compliance with the JPS National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Storm Water Discharge Permit, Section A. Limitations and Monitoring Requirements, #7 Contractor Requirements and Oversight.

- 1. Identify the potential pollutant-generating activities and pollutants expected to be exposed to stormwater.
- 2. Describe the location where the potential pollutant-generating activities will occur.
- 3. Identify the person responsible for implementing the pollution prevention practice or practices for each pollutant-generating activity.

Please initial each line of the procedure.

_____ Prevent and respond to leaks, spills and other releases;

_____ Prevent the discharge of spilled and leaked fuels and chemicals from vehicle fueling and maintenance activities;

_____ Prevent the discharge of soaps, solvents, detergents, and wash water from construction materials, including the clean-up of stucco,

paint, form release oils, and curing compounds. Collection and proper disposal in a manner to prevent contact with stormwater and prevent discharge of these pollutants.

_____ Minimize the discharge of pollutants from vehicle and equipment washing, wheel wash water and other types of washing (e.g., locating activities away from surface waters and stormwater inlets or conveyance and directing wash waters to sediment basins or traps, using filtration devices such as filter bags or sand filters or using similarly effective controls);

_____ Direct concrete wash water into a leak-proof container or leak-proof settling basin. The container or basin shall be designed so that no overflows can occur due to inadequate sizing or precipitation. Hardened concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wastes. Liquid concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wastes wasters and shall not be discharged to surface waters;

_____ Minimize the discharge of pollutants from storage, handling, and disposal of construction products, materials and wastes including (i) building products such as asphalt sealants, copper flashing, roofing materials, adhesives, concrete admixtures; (ii) pesticides, herbicides, insecticides, fertilizers, and landscape materials; and (iii) construction and domestic wastes such as packaging materials, scrap construction materials, masonry products, timber, pipe and electrical cuttings, plastics, Styrofoam, concrete, and other trash or building materials;

_____ Prevent the discharge of fuels, oils, and other petroleum products, hazardous or toxic wastes, and sanitary wastes.

_____ Report any other discharge from the potential pollutant-generating activities not addressed above to Jackson Public Schools.

Name of Business

Business Representative

Appendix G

TMDL Sample Location Table

Creation Date: September 14, 2021 Revision Date: August 16, 2023

TMDL Sample Locations

Jackson Public Schools							
Facility	Point of Discharge	Receiving Waters	Watershed	Parameter			
Cascades School	CAS-13.CB.DP	Hurd Narvin Drain	Grand River	E. coli, DO, Biota			
Dibble Elementary School	DIB-09.OP.OF	Surface Waters of the State	Grand River	E. coli, DO, Biota			
Hunt Elementary School/Educational Service Center/Transportation Complex	HET-21.MH.DP	Hurd Narvin Drain	Grand River	E. coli, DO, Biota			
Jackson High School/Administrative Complex	JHS-10.MH.DP	Hurd Narvin Drain	Grand River	E. coli, DO, Biota			
	JHS-41.FS.DP	Hurd Narvin Drain	Grand River	E. coli, DO, Biota			
	JHS-49.MH.DP	Hurd Narvin Drain	Grand River	E. coli, DO, Biota			
John R. Lewis Elementary School	JRL-21.OP.OF	Booth Drain	Grand River	DO, Biota			
	MSP-07.MH.DP	Grand River	Grand River	DO, Biota			
Middle School at Parkside	MSP-42.CB.DP	Grand River	Grand River	DO, Biota			
	MSP-47.CB.DP	Grand River	Grand River	DO, Biota			
	MSP-52.CB.DP	Grand River	Grand River	DO, Biota			
Montessori Center	JMC-02.MH.DP	Hurd Narvin Drain	Grand River	E. coli, DO, Biota			
Northeast Elementary School	NEE-16.OP.OF	Hurd Narvin Drain	Grand River	E. coli, DO, Biota			
Sharp Park Academy	SPA-07.CB.DP	Booth Drain	Grand River	DO, Biota			