

City of Kalamazoo
2015 Stormwater NPDES Permit Application

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City of Kalamazoo Response to MDEQ Comments in Correspondence dated November 15, 2016 Titled “DEQ Staff Comments in Response to City of Kalamazoo Revised MS4 Permit Application Submitted on August 31, 2016”: January 30, 2017

1. Provide the ERP

“The response explains how the City will track status, but still does not explain how the City will follow up on violations. Please include a procedure which provides the applicants’ expected response to violations to compel compliance. Please include timeframes as appropriate.”

Response:

The “procedure which provides the City of Kalamazoo expected response to violations to compel compliance” is to follow the previously submitted and approved Illicit Discharge Elimination Plan (IDEP) and the “Stormwater IDEP Enforcement Tracking Table,” and to follow protocol in City of Kalamazoo Ordinances that are associated with water quality, provided in previous correspondences and available on-line; primarily: Chapter 29 of the City of Kalamazoo Code of Ordinances (Stormwater System), Chapter 30 of the City of Kalamazoo Code of Ordinances (Soil Erosion and Sedimentation), Ordinance 1825 (Wellhead Protection Overlay), and Ordinance 1826 (Performance Standards).

City Ordinances are designed by the City attorneys to provide the City with legal mechanisms to address the violations but also purposely designed to provide staff with a reasonable level of flexibility in timelines and methodology since each situation exhibits unique characteristics, amount of evidence, and level of known and potential severity.

In the intent to provide MDEQ satisfactory additional detail regarding the City’s objectives in addressing Ordinance violations, the previously submitted “Attachment A: Stormwater IDEP Enforcement Tracking Table” has been revised (see attached) to include additional documentation fields for initial situation assessment, and if the situation warrants an ordinance related response – both with timelines.

28.-31. Construction Storm Water Runoff Control

“The response does not explain how the City insures that required Soil Erosion and Sedimentation Control Permits are obtained before construction begins. The procedure needs further clarification.”

Response:

During Site Plan Review, it is the Building Department’s responsibility to inform the developer/contractor that a Soil Erosion and Sedimentation Control (SESC) Permit is required or not. If it is, then they are required to show it on the site plan. Subsequently, the building inspectors complete a building plan review, using a checklist on the third page of the building permit (see attached). During this process, the inspectors are responsible to check if the SESC

Permit is issued or not, if all measures are in place on the plan, and finally to inspect the soil control measures in the field. Once the SESC Permits are issued and all soil erosion control measures are in place, then the inspectors will enter and track the inspections in the City's BS&A software system until the project is completed and the permits are closed out. Any further questions can be directed to Mr. Robert (Bob) McNutt, Building Official, Code Admin Manager, 269-337-8566. A revised document regarding Construction Stormwater Runoff Control is attached.

41. Post-Construction Storm Water Runoff Program

The City's statement that DEQ RRD staff David Harn and Alisa Lindsay serve at DEQ points of contact does not constitute a commitment to contact these staff in cases where postconstruction storm water practices need to be implemented in areas with existing soil or groundwater contamination. Please provide a statement that DEQ RRD staff will be consulted, and add this step to the City's review checklist."

Response:

DEQ RRD staff will be contacted for consultation in projects where stormwater infiltration is being proposed in areas with known existing soil groundwater contamination. **Please see revised Site Plan Review Wellhead Protection and Stormwater Compliance Checklist.**

70. Procedure Identifying BMPs at Facilities with Medium and Lower Potential for Discharge of Pollutants

"The City did not submit this procedure with the revised permit application, and stated that further information about exposure potential will be submitted by December 31, 2016. Please submit this procedure along with the other requested revisions."

Response:

The City has determined that other than the Metro Transit Facility and the Wastewater Treatment Plant – both having their own SWPPPs – no other facilities other than the Fleet Maintenance Facility, 415 Stockbridge Avenue, warrant a SWPPP. As requested by the MDEQ in an earlier correspondence, the Fleet Facility SWPPP has been revised to the newer MDEQ SWPPP template (see attached). The procedure selected to identify the need for BMPs at facilities with a "Medium and Lower Potential for Discharge of Pollutants" a facility chemical evaluation was completed by the Public Services Safety Coordinator. The result of this evaluation is attached and is titled "Report Name: Material Report Run Date: 1/24/17." All of the chemicals inventoried were at relatively low quantities and/or pre-packaged, within an enclosed/contained building, and reported to meet chemical storage requirements. This additional procedure has been added to the revised "Procedure for Updating the Existence, Location, Structural Stormwater Controls, and Potential to Discharge Pollutants to the Surface Waters of the State" (attached).

71.-74. Structural Storm Water Control Operation and Maintenance Activities

"The City's procedure for catch basin cleaning is acceptable only as a preliminary protocol. The prioritization will need to be refined over time as catch basins are identified which need more frequent cleaning. Waiting until these catch basins fill up to the point



TABLE 1

Stormwater Jurisdictional Discharge Points

Discharge Point ID	Location	Outfall_ID	Jurisdiction Receiving Discharge
STMHKT18226JDP	Devonshire & Turwill	STOGKT18236	KCRC
STMHKC18165JDP	W. Main & Drake	STOWKT18259	MDOT
STMHKC18147JDP	W. Main & Northampton	STOWKT181019	MDOT
STMHKC30119JDP	Seneca Ln. & Stadium	STOGKC30136	MDOT
STMHKC29537JDP	Rambling & Stadium	STOWKC29360	MDOT
STCBPC051JDP	Oakland & Kilgore	STOWAPC052	City of Portage
STMHKC1078JDP	Prouty & N. Westnedge	STOWAKC102308	MDOT
STMHKC101182JDP	Hopkins & Park	STOWAKT102030	MDOT
STMHKC1084JDP	Lulu & N. Westnedge	STOWAKC102308	MDOT
STMHKC10120JDP	Bosker & N. Westnedge	STOWAKC102308	MDOT
STMHKC10124JDP	Harding Pl & N. Westnedge	STOWAKC102308	MDOT
STMHKC156JDP	Williams & N. Westnedge	STOGKC102100	MDOT
STMHKC158JDP	Elizabeth & N. Westnedge	STOGKC102100	MDOT
STMHKC1512JDP	Mabel & N. Westnedge	STOGKC102100	MDOT
STMHKC1516JDP	Florence & N. Westnedge	STOWKC15459	MDOT
STMHKC1520JDP	Lawrence & N. Westnedge	STOWKC15459	MDOT
STMHKC1524JDP	Ada & N. Westnedge	STOWKC15459	MDOT
STMHKC1672JDP	Ransom & N. Westnedge	STOWKC15459	MDOT
STMHKC15684JDP	Willard & N. Westnedge	STOWKC15459	MDOT
STMHKC162016JDP	Eleanor & N. Westnedge	STOWAKC162227	MDOT
STMHKC15170JDP	Drexel Pl. & N. Park	STOWKC15459	MDOT
STMHKC15158JDP	Frank & N. Park	STOWKC15459	MDOT
STMHKC151065JDP	N. Burdick & Kalamazoo	STOWAKC152205	MDOT
STMHKC15905JDP	Cooley & Kalamazoo	STOWKC15707	MDOT
STMHKC16461JDP	Academy & S. Westnedge	STOWAKC162228	MDOT
STMHKC16475JDP	South St. & S. Westnedge	STOWAKC162228	MDOT
STMHKC22957JDP	Cedar & S. Westnedge	STOWAKC223501	MDOT
STMHKC222243JDP	Lovell & S. Westnedge	STOWAKC223501	MDOT
STMHKC22961JDP	Walnut & S. Westnedge	STOWAKC223501	MDOT
STMHKC22963JDP	Dutton & S. Westnedge	STOWAKC223501	MDOT
STMHKC21444JDP	Village & S. Westnedge	STOWAKC222500	MDOT
STMHKC21446JDP	Village & S. Westnedge	STOWKC221141	MDOT
STMHKC21448JDP	Minor & S. Westnedge	STOWKC221141	MDOT
STMHKC21643JDP	McCourtie & S. Westnedge	STOWAKC212202	MDOT
STMHKC151413JDP	Academy & S. Westnedge	STOWAKC151272	MDOT
STMHKC151623JDP	Lovell & S. Park	STOWAKC151272	MDOT

Discharge Point ID	Location	Outfall_ID	Jurisdiction Receiving Discharge
STMHKC2239JDP	Cedar & S. Park	STOWAKC223501	MDOT
STMHKC22173JDP	Walnut & S. Park	STOWAKC223501	MDOT
STMHKC22159JDP	Dutton & S. Park	STOWAKC223501	MDOT
STMHKC22261JDP	Ranney & S. Park	STOWAKC222500	MDOT
STMHKC22251JDP	Ranney & S. Park	STOWKC221141	MDOT
STMHKC221093JDP	Park Pl. & S. Park	STOWKC221141	MDOT
STMHKC151099JDP	Farmer's Alley & E. Michigan	STOWAKC152204	MDOT
STMHKC21670JDP	Pioneer & S. Westnedge	STOWAKC212201	MDOT
STMHKC28552JDP	Grandview & S. Westnedge	STOWKC213012	MDOT
STCBKC27811JDP	Montrose & S. Westnedge	STOWKC341010	MDOT
STMHKC28764JDP	Fairview & S. Westnedge	STOWKC341010	MDOT
STMHKC27676JDP	Fairview & S. Westnedge	STOWKC341010	MDOT
STMHKC27808JDP	Garland & S. Westnedge	STOWKC341010	MDOT
STMHKC28775JDP	Whitcomb & S. Westndege	STOWKC341010	MDOT
STMHKC27799JDP	Whitcomb & S. Westnedge	STOWKC341010	MDOT
STCBKC27757JDP	Fairfax & S. Westnedge	STOWKC341010	MDOT
STMHKC28789JDP	Whites & S. Westnedge	STOWKC341010	MDOT
STMHKC27851JDP	Whites & S. Westnedge	STOWKC341010	MDOT
STMHKC27330JDP	Howard & S. Park	STOWKC221397	MDOT
STCBKC221721JDP	Emerson (extened) & S. Park	STOWKC221397	MDOT
STMHKC221687JDP	Balch & S. Park	STOWKC221397	MDOT
STMHKC221681JDP	Balch & S. Park	STOWKC221399	MDOT
STMHKC33811JDP	Lynn (extended) & S. Westnedge	STOWKC341010	MDOT
STMHKC33821JDP	Parker & S. Westnedge	STOWKC341010	MDOT
STMHKC33114JDP	Denway & S. Westnedge	STOWKC341010	MDOT
STMHKC33113JDP	Denway & S. Westnedge	STOWKC341010	MDOT
STMHKC33119JDP	Liberty & S. Westnedge	STOWAKC342500	MDOT
STMHKC33122JDP	Oakhurst & S. Westnedge	STOWAKC342500	MDOT
STMHKC34158JDP	Pratt & S. Westnedge	STOWAKC342500	MDOT
STMHKC33140JDP	4400 Block of S. Westnedge	STOWAKC342500	MDOT
STMHPC041022JDP	Kilgore & S. Westnedge	STOWAKC342500	City of Portage
STCBKC25125JDP	Cork & Sprinkle	STOGCT3013	KCRC
STMHKC36123JDP	Easy St. & Sprinkle	STOWKC364	KCRC
STMHKC36185JDP	Kilgore & Sprinkle	STOGKC366020	KCRC
STMHKC14305JDP	1100 Block of Gull Rd.	STOWKC15453	MDOT
STMHKC14239JDP	Engleman & Riverview	STOWKC156000	MDOT
STMHKC151200JDP	800 Block of King Hwy.	STOWKC146513	MDOT
STMHKC23723JDP	Branch & King Hwy.	STOWKC145	MDOT

TABLE 2: 2015 Stormwater Management Plan - Revised 2019

Column >	1	2	3	4	5	6	7	8	9	10	11	12
Row	BMP/Action	Description/Method of Implementation	Minimum Measures							Frequency/Schedule	Method of Evaluating Effectiveness	Progress
			PPP	PEP	IDEP	CSC	PCC	P2/GH	TMDL			
1	Enforcement Response Procedures (ERPs)	See Attachment A (Chapter 29 of City of Kalamazoo Code of Ordinances - Stormwater); Attachment B (Chapter 30 of Code - Soil Erosion and Sedimentation Control); Appendix A of Code, Section 8.3H (Site Plan Review); Section 10 (Violations, Penalties and Enforcement).			X	X	X			As needed.	Enforcement as necessary.	No enforcement actions were necessary in 2018-2019.
2	Public Participation/ Involvement Program	See Attachment B.	X							See Attachment B	See Attachment B.	Public Noticed 2019 SWMP on www.protectyourwater.net Dec. 2019, the COK's main website, "View from the Curb" Spring 2020. Six stormwater related pages added to protectyourwater.net. KVCC will add the SWMP in future newsletters, social media and/or websites.
3	Public Education Plan	See Table 3.		X						See Table 3	See Table 3.	See TABLE 5: Stormwater Public Education Plan 2016-17 Progress Report - Revision 201. Various E-mails, website contacts and phone calls inquiring about water quality issues directly or indirectly confirm PEP effectiveness. Public outreach via ProtectYourWater.net, radio ads, movies and social media ads for the years 2018-2019 is verified by the Analytical Metrics. Water Resources Public Survey last conducted in 2017. Since KVCC approved nesting under COK's permit Aug. 2019, no IDEPs have been reported.
4	Illicit Discharge Elimination Plan <i>KVCC BMP5</i>	IDEP outfall screening; See Attachment C, Figures 3 and 4, Tables 1 and 4.			X					See Attachment C - IDEP (2016) for 4-year schedule for dry weather outfall screening and retention/detention basins.	See Attachment C - IDEP (2016) for dry weather screening program, and Attachments K (updated 2019), L2 (2016), and M2 (2016) for inspection/maintenance programs.	See IDEP trouble report list, Tables 2, 3, 4, 6 and 8, and Figures 1, 2, 3, 4, 5, 6, and IDEP Plan text section. 2018-2019: 169 of the 354 COK stormwater outfalls were investigated. Staff maintained/revise the IDEP Outfall Inspection Status Summary Database to track outfall evaluations. Status of Known Illicit Connections summarizes connections/discharges. Performed general on-site evaluations of 12 municipal pretreatment controls, and inspected 6 of 7 accessible municipal retention ponds. Since KVCC approved nesting under COK's permit Aug. 2019, the outfalls have not been investigated.
5	Construction Stormwater Runoff Control Program	Continue Soil Erosion & Sedimentation Control Program. Per Ordinance 1790, permit and enforce soil erosion and sedimentation controls associated with construction sites, per Part 31. Both the City's Code Enforcement Division and the Engineering Division are APAs for Part 91, addressing construction sites and street/utility work, respectively.				X				Continue APA status for enforcing Act 91.	See Construction Stormwater Runoff Control, permit application Questions 28-31 (Revision January, 2017), and Map of Designated Areas of Snow Plowing and Street Sweeping. Continued certification for APA status; number of Permits issued; enforcement of Ordinances and policies; reduction in TSS.	Continued APA status for enforcing Act 91, and the COK Code of Ordinances: stormwater IDEP (Chap. 29 of Code), Soil Erosion & Sedimentation Control Program (Chap. 30 of Code), and Zoning Ordinance (Appendix A). Effective response to complaints and enforcement of relevant ordinances.
6	Documentation of Post-Construction Stormwater Control for New and Redevelopment Projects.	Current: Performance Standards for Groundwater Protection within Wellhead Protection Capture Zones and Stormwater Quality Management (Ordinance No. 1826); Pending: Updates.					X			Continuous. Updated October 1, 2015	See Attachment H Post-Construction Runoff Program (permit Questions 32-59). Effective use and enforcement of Ordinance; Ordinances and Performance Standards updates in 2015.	Continued existence and enforcement of Ordinances - primarily via the Site Plan Review (SPR) process and responses to individual issues. SPR continues as the Regulatory mechanisms implementing the COK Code of Ordinances: stormwater IDEP (Chap. 29 of Code), Soil Erosion & Sedimentation Control Program (Chap. 30 of Code), Zoning Ordinance (Appendix A), and Performance Standards (Ordinance 1826). Infiltration through contaminated soil is not allowed per SPR.
7	Continue Site Plan Review process using the Wellhead Protection Zoning Overlay Ordinance and Performance Standards Ordinance.	Per Ordinances 1825 and 1826, require stormwater pre-treatment prior to discharge into the City's MS4 or directly into the surface waters. Appendix A of Code, Section 8.3. Pending: Updates for Performance Standards.				X	X			Continuous. Updated October 1, 2015	Number of site plans reviewed; number of required pre-treatment BMPs; number of natural BMPs; reduction in TSS; Ordinances and Performance Standards updates in 2015.	In 2018-2019 there were 168 pre-Site plan Reviews (SPR) which resulted in 129 approved SPRs including installation of 28 infiltrations ponds, 59 treatment units /chamber systems. SPR process was completely revised and enhanced 2017-2019 with new checklists and multi-department interconnected computer programs.

TABLE 2: 2015 Stormwater Management Plan - Revised 2019

Column >	1	2	3	4	5	6	7	8	9	10	11	12
Row	BMP/Action	Description/Method of Implementation	Minimum Measures							Frequency/Schedule	Method of Evaluating Effectiveness	Progress
			PPP	PEP	IDEP	CSC	PCC	P2/GH	TMDL			
8	Employee and Contractor Training.	Continue use of the Excal DVD "Storm Watch Municipal Storm Water Pollution Prevention" and/or the EGLE DVD "Storm Water Employee Training" for employee training. In addition, the Technician 3 staff will watch the more specific IDEP focused DVD "Illicit Discharge Detection & Elimination A Grate Concern."						X		All staff within 5 year Permit cycle. New hires within 1 year of hire. Contractors to begin viewing Storm Watch DVD in 2016 if they do not have staff with Stormwater Certification.	Number of employees trained; integration of stormwater control requirements into bid specifications. Contractor training/certification documentation.	In 2018 & 2019, 81 new COK Water Resources employees received training on stormwater related topics and viewed our professional videos on IDEP and pollution prevention. The Wastewater Division also mandates stormwater IDEP and prevention training for all personnel annually. Copies of DVDs were provided to Division and Section Managers whose employees were appropriate to view at least one of the DVDs. Contractors required to have training if not stormwater certified. Training records are located at the Harrison Facility and City Hall and are available upon request.
9	List structural Stormwater Controls (pre-treatment units).	List by Table all municipally owned properties with stormwater structural controls (pre-treatment units).						X	X	Continuous maintenance of list of municipal properties and structural stormwater controls with locations.	See Procedure for Updating and Revising the Existence, Location, Structural Stormwater Controls and Potential to Discharge Pollutants to the Surface Waters of the State (January 2017). Completion of list with locational information; maintenance of updated list. See also Attachments K (updated 2019), L2 (2016), and M2 (2016) for inspection/maintenance programs.	See Table 4: 2019 Stormwater Outfall Status. A complied list of structural stormwater controls/locational and maintenance information is ongoing. Stormwater trouble reports are maintained.
10	Inspect, perform maintenance, and evaluate all Stormwater Controls (pre-treatment units). <i>KVCC BMP6</i>	Annual year plan to inspect, perform maintenance and evaluate for effectiveness each City-owned stormwater control (pre-treatment unit) identified within the SWMP.						X	X	Annual Inspection & Maintenance	See Attachments K (updated 2019), L2 (2016), and M2 (2016) for inspection/maintenance programs.	In 2011, all non-Public Services Department organizations responsible for municipal stormwater pre-treatment structures were notified of their obligations to perform annual inspections and any needed maintenance. These structures are inspected by Division staff and required maintenance is performed by the Field Services Division. 2018-2019: 169 of the 354 COK stormwater outfalls were investigated, x catch basins cleaned. The vactor truck became active summer 2018. COK maintains tracking records for updating and prioritizing the cleanouts. Since KVCC approved nesting under COK's permit Aug. 2019, the raingardens have been maintained and overflow filters cleaned.
11	Continue street sweeping program. <i>KVCC BMP2</i>	Use one-to-two up to three Elgin Pelican series street sweepers to clean streets. A contractor removes the dumpsters that the sweepers deposit the debris in and delivers it to a Class II landfill. The same contractor tracks the volume of the debris accumulated.						X	X	On average, weekly sweeping for downtown area, and two to three times annually for the remaining City.	See "Additional Permit Information August 2016, Street Sweeping Policy Presented as a Supplement to Table 2 (SWMP 2016), Construction Stormwater Runoff Control, permit application Questions 28-31 (Revision January, 2017), and Map of Designated Areas of Snow Plowing and Street Sweeping. Number of sweepings, pounds of material collected and disposed; reduction in TSS.	2018-2019: weekly sweeping for downtown area, and two to three times annually for the remaining City were accomplished on average. The volume of material collected was total of 598 cubic yards of solid waste in 2018 and 2019, respectively. A 3rd street sweeper was added in 2018. All material was dispose of at a Type II Landfill. Since KVCC approved nesting under COK's permit Aug. 2019, street sweeping was not conducted.
12	Continue Leaf Collection Program. <i>KVCC BMP3</i>	Residents are asked to rake their leaves in the late fall into the edge of the street in accordance with a published schedule. City crews then use a combination of tractors, front-end loaders and compactor trucks to collect the leaves. Cycle is repeated (weather permitting). Collected leaves are hauled and deposited at a city composting facility.						X	X	Bi-Annual publication of "A View From the Curb The City's Guide to Waste & Recycling."	Volume of leaves collected and disposed; estimated pounds of phosphorus prohibited from entering surface waters and clogging storm sewers; continued Bi-Annual publication of "A View From the Curb The City's Guide to Waste & Recycling"; reduction in phosphorus loadings.	In 2018-2019 an average of 11,000 cubic yards of leaves were collected for each year (22,000 cubic yards total). The leaves are composted and given away free of charge. The "View from the Curb" was published twice a year for the period 2018-2019. All associated publications continue to be updated and distributed. Since KVCC approved nesting under COK's permit Aug. 2019, leaf collections was contracted out.
13	Continue Brush Pick-up Program. <i>KVCC BMP3</i>	A private contractor currently performs brush collection once a month from May through October on the same day as bulk trash (see below). Residents are asked to place bundled brush in the curb lawn for collection in accordance with the published monthly bulk trash collection schedule.						X	X	Per published monthly schedule from May through October on the same day as bulk trash. Bi-Annual publication of "A View From the Curb The City's Guide to Waste & Recycling."	Volume of brush collected; estimated pounds of phosphorus prohibited from entering surface waters, and clogging storm sewer; continued Bi-Annual publication of "A View From the Curb The City's Guide to Waste & Recycling"; reduction in phosphorus loadings.	In 2018-2019 439 tons of brush were picked up. The "View from the Curb" was published twice a year for the period 2018-2019. All associated publications continue to be updated and distributed. Since KVCC approved nesting under COK's permit Aug. 2019, in-house trimming of a few trees was completed.

TABLE 2: 2015 Stormwater Management Plan - Revised 2019

Column >	1	2	3	4	5	6	7	8	9	10	11	12
Row	BMP/Action	Description/Method of Implementation	PPP	PEP	IDEP	Minimum Measures				Frequency/Schedule	Method of Evaluating Effectiveness	Progress
14	Continue Bulk Trash Collection Program.	A private contractor performs bulk trash collection for the City. Curbside collection is provided to residential properties with four units or less. All other properties must contract individually with private companies for trash removal. Residents place bulk trash near the curb for collection in accordance with a published schedule. A limit of 7.7 cubic yards per property per month is currently in place.								Monthly, per published schedule. Bi-Annual publication of "A View From the Curb The City's Guide to Waste & Recycling."	Volume of bulk trash collected; continued Bi-Annual publication of "A View From the Curb The City's Guide to Waste & Recycling."	In 2018-2019 2,133 tons of bulk waste/trash were picked up. The "View from the Curb" was published twice a year for the period 2018-2019. All associated publications continue to be updated and distributed.
15	Catch Basin/Inlet Cleaning. <i>KVCC BMP7</i>	Due to budget/staff constraints, there is currently no scheduled stormwater catch basin/inlet cleaning program. However, A dedicated vactor truck and crew for the city-wide cleanout plan of all catch basins/inlets, and manholes was initiated in 2018. Also, cleanings are performed on a requested and urgently needed basis (e.g., localized flooding), and associated with IDEP investigations as needed. Waste collected is by vactor trucks or by hand and are disposed of at the Wastewater Treatment Plant, unless it is determined that it be necessary to dispose of it at a Type II Landfill or by a certified hazardous waste hauler determined location.								In 2018, the COK obtained one dedicated vactor truck and crew for our city-wide cleanout plan of all catch basins/inlets, and manholes. One cycle of the cleanout plan is estimated between 10-20 years.	See Attachments K (updated 2019), L2 (2016), and M2 (2016) for inspection/maintenance programs. All catch basins will need to be cleaned out when the sediment level in the sup reaches between 1/3 and 1/2 full based on sediment depth using rods.	In 2018-2019 hundreds of catch basins were cleaned. Stormwater cleanouts produces 349,711 gallons of liquid waste and 1,576 tons of sands. The vactor truck became active summer 2018. COK maintains tracking records for updating and prioritizing the cleanouts. The material is disposed from the Harrison Street Facility. Since KVCC approved nesting under COK's permit Aug. 2019, catch basin/inlets cleaning was not completed.
16	Snow and Ice Removal Program. <i>KVCC BMP1</i>	The City applies rock salt, rock salt with liquid calcium chloride, rock salt with sand mix, a pre-wetting de-icing material, and is experimenting with beet juice to maintain safer roadway travel while reducing rock salt usage. Product use is largely dependent upon weather conditions. Other agricultural products, such as corn-based products, are also being evaluated. In addition, the Kalamazoo Mall uses a snowmelt system instead of salting.								As needed.	See City of Kalamazoo Snow Plowing 2016, Construction Stormwater Runoff Control, permit application Questions 28-31 (Revision January, 2017), and Map of Designated Areas of Snow Plowing and Street Sweeping. The amount of rock salt and sand mix used under appropriate conditions. Strategy to reduce the use of sand	In 2018-2019 approx. 12,246 tons of road salt were brought in and 11,765 tons were taken out for road salting (difference of 481 tons in storage). The COK finished evaluations of using beet juice or agricultural products for road salting and determined these options were not viable given the cost compared to rock salt. Since KVCC approved nesting under COK's permit Aug. 2019, these services were contracted.
17	Continue Use of Enclosed Salt Storage Facility.	Rock salt is stored in an enclosed above-ground salt storage facility with a capacity of 7,000 tons, above the 100-year flood plain elevation.								Continuous: Use enclosed salt storage facility located at the Harrison Street Facility.	Continued use of enclosed above-ground facility; compliance with SWPPP for wastewater treatment plant.	Continued use of the Harrison enclosed, above-ground salt storage facility, and compliance with the SWPPP.
18	Continue implementation of SWPPP for the 415 Stockbridge Avenue Facility.	Since this the fleet maintenance operation at this location meets the criteria for which a SWPPP is necessary, one was prepared and updated in 2017.								Continuous: Fleet Director or representative to maintain stormwater certified operator status, implement inspections and continue BMPs.	Attachments K (updated 2019), L2 (2016), and M2 (2016) for inspection/maintenance programs. Acquired Stormwater Certified Operator License(s); number of inspections; number of BMPs implemented; overall SWPPP compliance.	See 2017 revised SWPPP for Fleet Services at the Stockbridge Facility. Continued implementation of SWPPP, monthly inspection of facility, record updates, etc. The COK currently has 11 Certified Stormwater Operators.
19	Continue Recyclable Material Collection Program.	There are three components to the City's residential recycling program: weekly curbside residential collection for all residential properties with four units or less; multi-unit collection for those property owners or managers willing to participate; and a recycling drop-off facility is available to all citizens.								Annual evaluation to continue program. Bi-Annual publication of "A View From the Curb The City's Guide to Waste & Recycling."	Volume of materials collected and number of participants; continued Bi-Annual publication of "A View From the Curb The City's Guide to Waste & Recycling."	In 2018-2019 approx. 4,360 tons of recycled waste were picked up from approximately 11,000 households each year (~32-35%). All associated publications continue to be updated and distributed.
20	Continue Household Hazardous Waste Collection.	City residents are able to dispose of their hazardous waste at the Kalamazoo County Household Hazardous Waste Center, 1301 Lamont Avenue, free of charge. Each year the City enters into a contract with Kalamazoo County, which shares proportionally the cost with all participants to operate the program.								Re-evaluate and propose renewal of contract on an annual basis. Bi-Annual publication of "A View From the Curb The City's Guide to Waste & Recycling."	Continued contracts with Kalamazoo County; volume and type of materials collected and number of participants; continued Bi-Annual publication and COK website ads of "A View From the Curb The City's Guide to Waste & Recycling."	In 2018-2019 approx. 5,000 participants from the COK utilized disposal services of the HHWC. The COK continues to contract with Kalamazoo County for waste collection and participation continues to grow. All associated publications continue to be updated and distributed. Please contact Kalamazoo County for specific details regarding type of materials collected and associated volumes.

TABLE 2: 2015 Stormwater Management Plan - Revised 2019

Column >	1	2	3	4	5	6	7	8	9	10	11	12
Row	BMP/Action	Description/Method of Implementation	Minimum Measures							Frequency/Schedule	Method of Evaluating Effectiveness	Progress
			PPP	PEP	IDEP	CSC	PCC	P2/GH	TMDL			
21	Environmental Safer Products.	The City Commission Policy for "Procurement of Recycled & Environmentally Friendly Products" is provided as Attachment 1.						X		Continue current policy; 2016- Review and consider updates/revisions.	Continuation and/or enhancement of existing policy.	The COK continues with the stated methods and enforcement policies. No updates have occurred since 2016 except the COK discontinuance of glyphosate herbicides since March 2019.
22	Waterway Vegetative Buffers.	Continue use of the City's "Lawn Care Guidelines for Parks, Greenspaces, and Along Waterways" and discussion with staff and seasonal employees during annual "training day."						X		Continue current policy; 2015- Review and consider updates/revisions. By 2015, incorporate specifications into lawn mowing contracts for subcontractors.	Continuation and/or enhancement of existing policy; number of existing vegetative buffers maintained and new ones installed along waterways. Incorporation of specifications into contracts.	The COK continues with the stated methods and enforcement policies. No updates have occurred since 2016. All specifications were incorporated into our contracts. Maintained existing buffers (e.g. South Crosstown Ponds & Milham Park).
23	Lawn Care Guidelines. KVCC BMP3	Continue use of the City's "Lawn Care Guidelines for Parks, Greenspaces, and Along Waterways" and discussion with staff and seasonal employees during annual "training day."						X		Continue current policy; 2016- Review and consider updates/revisions. By 2017, incorporate specifications into lawn mowing contracts for subcontractors.	Continuation and/or enhancement of existing policy. Effective communication with lawn maintenance employees and temporary seasonal hires regarding policy. Incorporation of specifications into contracts.	The COK continues with the stated methods and enforcement policies. No updates have occurred since 2016. All specifications were incorporated into our contracts. Perform annual training day in Parks & Recreation for staff/seasonals. Since KVCC approved nesting under COK's permit Aug. 2019, no BMP changes occurred.
24	Reduction of Pesticides, Herbicides, and Fertilizers. KVCC BMP4	The City has a "Pesticide/Herbicide Advisory Committee" to monitor the use of pesticides and herbicides in the City and recommend policies and guidelines. Also, continue use of the City's "Lawn Care Guidelines for Parks, Greenspaces, and Along Waterways" and discussion with staff and seasonal employees during annual "training day."						X	X	Continue current policy: Review and consider updates/revisions.	See Attachments P for pesticide information, and N " TMDL Implementation Plan". Continuation and/or enhancement of existing policies.	TMDL Implementation Plan continues. On March 21, 2019 the COK removed all sources and supplies of Round Up and/or any product containing Glyphosate and/or 2-4-D. Replacement products were recommended containing an ammonia salt product or sodium nitrate in various concentrations. All contractors continue to be licensed for chemical use. Since KVCC approved nesting under COK's permit Aug. 2019, no BMP changes occurred.

PPP - Public Participation/Involvement Program
PEP - Public Education Program
CSC - Construction Stormwater Runoff Control Program
IDEP - Illicit Discharge Elimination Program
PCC - Post-Construction Control Stormwater Runoff Program
TMDL - Total Maximum Daily Load Implementation Plan

Additional Information to Supplement Textual Response

Questions 60 - 84

Attachment K:

1. "Work Practice to Update Stormwater Asset Inventory and Mapping"

Attachment L2:

2. "Procedure for Updating and Revising the Existence, Location, Structural Stormwater Controls, and Potential to Discharge Pollutants to the Surface Waters of the State"

Attachment M2:

3. "Stormwater System Operations and Maintenance Plan"
4. "Stormwater System Cleaning Tracking Table" Example
5. "Outfall Stormwater Sewershed Map" Example

Table 2:

6. Table "Municipal Operations/Good House-Keeping for Pollutants, BMPs and Stormwater Program Assessment"
7. "Street Sweeping Policy"

Figure 7:

8. Figure "Designated Areas for Snow Plowing & Street Sweeping"

**MUNICIPAL OPERATIONS/GOOD HOUSE-KEEPING
BMPS, POLLUTANTS, AND STORMWATER PROGRAM ASSESSMENT
Presented as a Supplement to Table 2 (SWMP)**

<u>BMP</u>	<u>Pollutant of Concern</u>	<u>Other Issues/Concerns</u>	<u>Annual Assessment</u>
Winter Road Maintenance - Snow and Ice Removal	Salts, Sediment	Street Safety	Best materials and least amounts being used to meet program objectives
Salt Storage	Sodium, Chlorides	Storage Facility Maintenance	Regulatory Compliance
Street Sweeping and Cleaning	Salt, Sediment, Hydrocarbons	Traffic Control	Adequate Street Coverage, Methods, and Disposal Practices
Catch Basin/Inlet and Storm Main Cleaning	Salt, Sediment, Hydrocarbons	Traffic Control	Adequate Progress, Methods, and Disposal Practices
Soil Erosion/Sedimentation	Sediment, Phosphorus	Street Safety	Ordinance/Permit Compliance
Structural Controls	Sediment/Various	Stormwater Storage and Treatment	Inspections/Response to Needs
Leaf Collection Program	Phosphorus/Organic Matter	Street Safety, Stormwater Impediment	Volume Collected and Adequacy of Methods and Schedule
Brush Pick-up Program	Phosphorus/Organic Matter	Street Safety, Stormwater Impediment	Volume Collected and Adequacy of Methods and Schedule
Bulk Trash Pick-up Program	Debris/Mixed	Street Safety, Stormwater Impediment	Volume Collected and Adequacy of Methods and Schedule
Recyclable Material Collection Program	Paper, Glass, Plastics		Volume Collected and Adequacy of Methods and Schedule
Household Hazardous Waste Collection Program	Household Chemicals	Chemical Exposures with Illicit Dumping	Currency of Contract, Volume Collected
Pesticides, Herbicides, and Fertilizer Applications	Pesticides, Herbicides, Phosphorus, Nitrogen	Chemical Exposures with Illicit Dumping	Policies to Minimize Use/Effectiveness
Fleet Services	Oils, Greases, Hydraulic Fluids, Solvents, Gasoline	UST Management/Safety, Staff Exposures and Safety	See SWWP; Safety Management; Waste Disposal Practices

Street Sweeping Policy Presented as a Supplement to Table 2 (SWMP)

Street sweeping is only to be performed during dry weather if possible.

Sweepers are to be operated at manufacturer requested optimal speed level to increase effectiveness.

Sweepers are to be adequately maintained per manufacturer recommendations and determined needs.

Staff equipment use training will be provided for all sweeper vehicle drivers.

Materials from the street sweepers will be stored at dedicated dumpsters and transported to the 1415 N. Harrison Street Facility where it is dewatered, sampled and analyzed for landfill acceptance, and transported to a Type II Landfill.

Accurate logs of:

- Date work performed
- Streets swept
- Sweeper crew identification
- Sweeper vehicle use identification
- Emergency contacts
- City covered area associated with boundary sections (from City-prepared street sweeping and Snow Plowing Section Map)
- Number of material dumps
- Location of dumpsters
- Material storage
- Material disposal records

Schedule

The current schedule of street sweeping is weekly for the “downtown” area, approximately defined as Area 1 on the attached map titled “City of Kalamazoo Snow Plowing 2016.” The remaining portions of the City (Zones 2 through 10) are swept approximately every 3 weeks.

Street sweeping is also performed as necessary when construction or utility work activities result in excessive sediment on the streets (e.g. water main breaks).

Reference: “City of Kalamazoo Snow Plowing 2016” or any updated subsequent figure showing defined zones.



TABLE 3: Stormwater Public Education Plan - Revised 8-2016, Updated 1-2021

Column >	1	2	3	4	5	6	7	8
Row	Public Education Topic	Key Messages	Target Audiences	Delivery Mechanism or Activity	Timeline for Development	Timeline for Implementation	Responsible Party	Evaluation Method
1	Public Responsibility and Stewardship in Watershed	Definition of a watershed; education on specific watershed(s) that public can affect; purpose for protecting watershed; ways human activities can affect watersheds.	Broad Audience: Residents, visitors, public employees, students; businesses, institutions, construction contractors, and developers.	City's protectyourwater.net (PYW) website; classroom/club presentations and demonstrations; facility tours; event presentations/model demonstrations (EnviroScape), static displays, material distribution (e.g. "Storm Watch," "Brown Water, Green Weeds" brochures, sponges). KVCC Ref. B, C, E, G, H & I	Continue operation and maintenance (O & M) of PYW Website. Annual review and O & M of classroom presentation materials and models, static display; and distribution materials.	2019-21 significant upgrades to PYW Website. Minimum once annually - presentation/model demonstration. Quarterly - Material distribution.	City of Kalamazoo (COK) Water Resources Division (WRD) staff. Other participants may include: Kalamazoo River Watershed Council (KRWC); Total Maximum Daily Load (TMDL) Steering Committee; the Environmental Concerns Committee (ECC); the Kalamazoo Area MS4 Collaborative Stormwater Group (KSWG-MS4 Group); and Wellhead Protection Program (WHPP) Committee.	Enhancements to, O & M of, and visits to City's website; number of presentations/facility tours; materials distributed; events participated in; general feedback received from community. 2022 - 4th Community Water Resources Public Survey. KVCC Reference F
2	Ultimate Stormwater Discharge Location and Potential Impacts	Discharges to surface water and potential water quality impacts.	Residents, visitors, public employees, students, businesses, construction contractors, and developers.	Maintain stormwater asset markers, and consider additional locations. online GIS shows stormwater assets, including outfalls. Site Plan Review meetings. Distribution of IDEP Brochure. KVCC Reference D	Already developed and implemented stormwater asset marker plan, and online GIS and will continue updating periodically. Will continue to communicate to contractors during the Site Plan Review process the importance of understanding ultimate discharge locations and potential impacts.	Completed - Implemented approximately 420 markers to selected catch basins/inlets; O & M and additional markers to continue based on need and resources. 55 read "No Dumping Drains to Lake" and the rest read "No Dumping Drains to River." 2020 additional markers installed. Quarterly updates to online GIS stormwater map. Weekly communication with contractors during the Site Plan Review process RE: the importance of understanding ultimate discharge locations and potential impacts.	COK WRD staff. Other participants may include: KRWC, TMDL Steering Committee, the ECC, the KSWG-MS4 Group, the WHPP Committee, private organizations and citizens.	Number of markers installed and maintained. Continued availability of online GIS; and website; continued presentations and model demonstrations; distribution of IDEP Brochure. 2022 - 4th Community Water Resources Public Survey.
3	Public Reporting of Illicit Discharges	Definition of illicit discharges/connections; illicit discharges can adversely impact surface and groundwater; importance of, and how to detect and report known and suspected illicit discharges to County, City and/or EGLE; City ordinances.	Residents, visitors, public employees, students, businesses, construction contractors, and developers.	City's main website & PYW website; City's annual CCR; classroom/club presentations and demonstrations; facility tours; event presentations/model demonstrations, static displays; material distribution (e.g. "Storm Watch," "Brown Water, Green Weeds" brochures, sponges). Internal communication / protocol regarding roles & responsibilities in handling reports (e.g. Hazmat Team and staff support). 2020 development of 311 call center includes IDEP reporting. Updated IDEP Brochure for citizens, and staff training.	Already developed: websites; CCR; View from the Curb; classroom presentation format and models; static display; staff training, IDEP Brochure, and some materials for distribution (e.g., handouts, sponges); use the P & A slogan "What gets to the street, gets to the creek!"; and IDEP tracking system (from 2017).	Completed: IDEP recording tracking system. Annually (one minimum) classroom presentations and/or model demonstrations, P & A slogan "What gets to the street, gets to the creek!" on PYW website. Annually - Training for new staff within 1-year; all staff training within permit period. 2020 initiated 311 call center.	COK WRD staff. Other participants may include: KRWC, TMDL Steering Committee, the ECC, the KSWG-MS4 Group, the WHPP Committee, private organizations and citizens.	Existence of a public reporting system. Number of reports received/logged; number of responses to calls; number of, and variety of strategies to inform public on the importance of and how to report illicit discharges and connections. Implementation of staff training. 2022 - 4th Community Water Resources Public Survey (if EGLE grant funding received).
4	Promote Preferred Cleaning Materials and Procedures for Car, Pavement, and Power Washing	Environmentally friendly cleaning materials, and procedures for washing cars, pavement, and power washing.	Residents, visitors, public employees, students, businesses, construction contractors, and developers.	City's websites; movie ads, radio ads, social media campaign, CCR, KSWG-MS4 Group; View from the Curb; classroom presentation format and models; static display; staff training. Internal communication/protocol regarding use of BMPs; distribution and/or reference of EGLE guide for Power Washing. KVCC Ref. C, G, H & I	Already developed: websites; movie ads, radio ads, social media campaign, CCR; A View from the Curb; classroom presentation format and models; static display; staff training. IDEP Brochure, and some materials for distribution (e.g., handouts, sponges); use the P & A slogan "What gets to the street, gets to the creek!".	2019-21 significant upgrades to PYW Website. Annually in March - Renewal of pre-movie theatre ads (Kalamazoo 10, AMC Portage 10 (closed 11-2020) and Celebration Cinema) or online streaming with NCM. Annually in September - Review & renewal of radio ad campaign. March and/or September - View from the Curb; Annually CCR; KSWG-MS4 Group outreach. Minimum once annually - presentation/model demonstration. Quarterly - Material distribution. As opportunity exists - City will continue to mention issue during presentations, model demonstrations, and facility tours.	COK WRD staff. Other participants may include: KRWC, TMDL Steering Committee, the ECC, the KSWG-MS4 Group, the WHPP Committee, private organizations and citizens.	Enhancements to, O & M of, and visits to City's website; pre-movie ads; radio ads; social media campaign; number of presentations/facility tours; materials distributed; events participated in; general feedback received from community. 2022 - 4th Community Water Resources Public Survey (if EGLE grant funding received). KVCC Reference F
5	Inform and Education the Public on Proper Application and Disposal of Pesticides, Herbicides, and Fertilizers	Improper disposal of chemicals can adversely impact surface water/ importance of using the Kalamazoo County Household Hazardous Waste Center; best management practices (BMPs) can prevent adverse impacts to surface water.	Residents, visitors, public employees, students, businesses, construction contractors, and developers.	City's PYW website; pre-movie theater ads/online streaming; radio ads; social media campaign; City's annual CCR; classroom/club presentations and demonstrations; facility tours; event presentations/model demonstrations (Groundwater Simulator and EnviroScape), static displays; material distribution. KVCC Ref. C & I	Already developed: websites; movie ads, radio ads, social media campaign, CCR, KSWG-MS4-Group; View from the Curb; classroom presentation format and models; static display; staff training, IDEP Brochure, and some materials for distribution (e.g., handouts, sponges); use the P & A slogan "What gets to the street, gets to the creek!". City added new website links in 2019.	Annually - Disposal contract with Kalamazoo County Household Hazardous Waste Center. As opportunity exists - Distribute materials (e.g., "Storm Watch" and "Brown Water, Green Weeds" brochures, sponges), and use the P & A slogan "What gets to the street, gets to the creek!" 2019-21 significant upgrades to PYW Website. Annually in March - Renewal of pre-movie theatre ads (Kalamazoo 10, AMC Portage 10 (closed 11-2020) and Celebration Cinema) or online streaming with NCM. Annually in September - Review & renewal of radio ad campaign. March and/or September - View from the Curb; Annually CCR. Minimum once annually - presentation/model demonstration. Quarterly - Material distribution. As opportunity exists - City will continue to mention issue during presentations, model demonstrations, and facility tours.	COK WRD staff. Other participants may include: KRWC, TMDL Steering Committee, the ECC, the KSWG-MS4 Group, the WHPP Committee, private organizations and citizens.	Number of website visitors; continued contract with Kalamazoo County for Household Hazardous Waste Collection Center use; number of educational presentations and demonstrations discussing stormwater; number and type of material distribution; continued movie theatre ads, radio ads, social media campaign; new or enhanced website links. 2022 - 4th Community Water Resources Public Survey (if EGLE grant funding received). KVCC Reference F
6	Promote Proper Disposal Practices for Grass Clippings, Leaf Litter, and Animal Wastes that May Enter the MS4	Keep yard and pet waste from getting to the street/storm inlets to prevent negative impact to surface waters.	Residents, visitors, public employees, students, businesses, construction contractors, and developers.	City's PYW website; pre-movie theater ads/online streaming; radio ads; social media campaign; City's annual CCR; classroom/club presentations and demonstrations (Groundwater Simulator and EnviroScape), static displays; material distribution. KVCC Ref. C & I	Already developed: websites; movie ads, radio ads, social media campaign, CCR, KSWG-MS4 Group; View from the Curb; classroom presentation format and models; static display; staff training, IDEP Brochure, and some materials for distribution (e.g., handouts, sponges); use the P & A slogan "What gets to the street, gets to the creek!". City added new website links in 2019.	2019-21 significant upgrades to PYW Website. Annually in March - Renewal of pre-movie theatre ads (Kalamazoo 10, AMC Portage 10 (closed 11-2020) and Celebration Cinema) or online streaming with NCM. Annually in September - Review & renewal of radio ad campaign. March and/or September - View from the Curb; Annually CCR. Minimum once annually - presentation/model demonstration. Quarterly - Material distribution. As opportunity exists - City will continue to mention issue during presentations, model demonstrations, and facility tours.	COK WRD staff. Other participants may include: KRWC, TMDL Steering Committee, the ECC, the KSWG-MS4 Group, the WHPP Committee, private organizations and citizens.	Decrease in debris in streets/collected by street sweeper. Enhancements to, O & M of, and visits to City's website; pre-movie ads/online streaming; radio ads; social media campaign; number of presentations/facility tours; materials distributed; events participated in; general feedback received from community. 2022 - 4th Community Water Resources Public Survey (if EGLE grant funding received). KVCC Reference F



TABLE 3: Stormwater Public Education Plan - Revised 8-2016, Updated 1-2021

Column >	1	2	3	4	5	6	7	8
Row	Public Education Topic	Key Messages	Target Audiences	Delivery Mechanism or Activity	Timeline for Development	Timeline for Implementation	Responsible Party	Evaluation Method
7	Identify and Promote the Availability, Location, and Requirements of Facilities for Collection or Disposal of Household Hazardous Wastes, Travel Trailer Sanitary Wastes, Chemicals, and Motor Vehicle Fluids	Improper disposal of chemicals and solid waste can adversely impact surface water; availability of and importance of using the Kalamazoo County Household Hazardous Waste Center and the City's solid waste collection services (e.g., leaf, brush, bulk trash, and recyclables).	Residents, visitors, public employees, students; businesses, institutions, construction contractors, and developers.	Contract with Kalamazoo County for Household Hazardous Waste Center use; City's PYW website; City's pre-movie theater ads/online streaming; radio ads; social media campaign; City's annual CCR; classroom/club presentations and demonstrations; facility tours; event presentations/model demonstrations (Groundwater Simulator and EnviroScape), static displays; material distribution. KVCC Ref. C & I	Already developed: contract with Kalamazoo County; websites; two pre-movie theatre/online streaming ad specifically addresses issue; radio ads; social media campaign; View from the Curb; presentation material; use of models; material distribution.	Annually - Disposal contract with Kalamazoo County Household Hazardous Waste Center. Annually - O & M Solid Waste Management Program (4 parts). 2019-21 significant upgrades to PYW Website. Annually in March - Renewal of pre-movie theatre ads (Kalamazoo 10, AMC Portage 10 (closed 11-2020) and Celebration Cinema) or online streaming with NCM. Annually in September - Review & renewal of radio ad campaign. March and/or September - View from the Curb; Annually CCR. Minimum once annually - presentation/model demonstration. Quarterly - Material distribution. As opportunity exists - City will continue to mention issue during presentations, model demonstrations, and facility tours.	COK WRD staff. Other participants may include: KRWC, TMDL Steering Committee, the ECC, the KSWG-MS4 Group, the WHPP Committee, private organizations and citizens.	Number of website visitors; continued contract with Kalamazoo County for Household Hazardous Waste Collection Center use; continued City Solid Waste Collection Program; number of City residents using collection services; volume of materials collected; number of educational presentations and demonstrations discussing stormwater; continued movie theater ad; radio ad social media campaign. 2022 - 4th Community Water Resources Public Survey (if EGLE grant funding received). KVCC Reference F
8	Septic Tank Care and Maintenance	Proper septic system O & M; how to recognize system failure and its potential impact on water quality; proper disposal of pumped waste; where to get information; existing ordinances.	Septic system owners; septage haulers.	City's ordinances; PYW website; pre-movie theater ads/online streaming; radio ads; social media campaign; City's annual CCR; KSWG-MS4 Group; classroom/club presentations and demonstrations; facility tours; event presentations/model demonstrations (Groundwater Simulator and EnviroScape), static displays; material distribution.	Since there are only two short sections of streets within the City that are not serviced by sanitary sewer and have storm sewers, we largely defer this issue to Kalamazoo County Environmental Health, other than our general education campaign.	2019-21 significant upgrades to PYW Website. Annually in March - Renewal of pre-movie theatre ads (Kalamazoo 10, AMC Portage 10 (closed 11-2020) and Celebration Cinema) or online streaming with NCM. Annually in September - Review & renewal of radio ad campaign. March and/or September - View from the Curb; Annually CCR. Minimum once annually - presentation/model demonstration. Quarterly - Material distribution. As opportunity exists - City will continue to mention issue during presentations, model demonstrations, and facility tours.	COK WRD staff. Other participants may include: KRWC, TMDL Steering Committee, the ECC, the KSWG-MS4 Group, the WHPP Committee, private organizations and citizens.	Since there are only two short sections of streets within the City that are not serviced by sanitary sewer and have storm sewers, we largely defer this issue to Kalamazoo County Environmental Health. However, we will continue to use the PYW website to promote this topic. Maintain and enhance message and links regarding septic tank care and maintenance. 2022 - 4th Community Water Resources Public Survey (if EGLE grant funding received).
9	Educate the Public on and Promote the Benefits of Green Infrastructure and Low Impact Development	Using native vegetation is usually beneficial, especially for surface water buffers since they typically are relatively low maintenance (do not need chemicals), they effectively absorb stormwater, decrease the need for mowing, and improve wildlife habitat. Benefits of green infrastructure and LID.	Property owners; City employees, especially Parks & Recreation staff; site plan applicants; contractors; general citizens.	Communicate the benefits to City decision makers; incorporate native vegetation into as many vegetative projects to the maximum extent practical. Maintain and enhance existing website links regarding topics. Encourage incorporation of green infrastructure and Low Impact Development (LID) measures into site plans where applicable. KVCC Ref. A & D	Already have several good links on website regarding benefits of native plants; added more links in 2021; will continue to research and modify/add more as appropriate.	2019-21 significant upgrades to PYW Website. Annually in March - Renewal of pre-movie theatre ads (Kalamazoo 10, AMC Portage 10 (closed 11-2020) and Celebration Cinema) or online streaming with NCM. Annually in September - Review & renewal of radio ad and social media campaign. March and/or September - View from the Curb; Annually CCR. Minimum once annually - presentation/model demonstration. Quarterly - Material distribution. As opportunity exists - City will continue to mention issue during presentations, model demonstrations, and facility tours. Weekly - City will promote during Site Plan Meetings.	COK WRD staff. Other participants may include: KRWC, TMDL Steering Committee, the ECC, the KSWG-MS4 Group, the WHPP Committee, private organizations and citizens.	Existence of website links; number of events that discuss benefits of using native plants; material made available to general citizens; communication to select City staff and contractors; participation with collaborative grant projects implementing green strategies. KVCC Reference F
10	Management of Riparian Lands to Protect Water Quality	Importance of riparian corridors; issues/challenges associated with water quality; BMPs for riparians.	Property owners; riparians; developers/contractors; lake & stream associations; golf courses; City employees, especially Parks & Recreation staff.	Communicate issue to general citizens via website, and pre-movie ad/online streaming; discuss issue at presentations/demonstrations regarding water quality; incorporate BMPs into City policy as appropriate and practical. KVCC Reference J	Added more links & resources in 2019-21. Will continue research for additional links for informational sources via website and research for potential handout material for presentations or website downloads. Distribute educational brochures.	Weekly - Use new Performance Standards to incorporate buffer requirements for Site Plan Review. 2019-21 significant upgrades to PYW Website. Annually in March - Renewal of pre-movie theatre ads (Kalamazoo 10, AMC Portage 10 (closed 11-2020) and Celebration Cinema) or online streaming with NCM. Annually in September - Review & renewal of radio ad and social media campaign. March and/or September - View from the Curb; Annually CCR. Minimum once annually - presentation/model demonstration. Quarterly - Material distribution. As opportunity exists - City will continue to mention issue during presentations, model demonstrations, and facility tours. Weekly - City will promote during Site Plan Meetings.	COK WRD staff. Other participants may include: KRWC, TMDL Steering Committee, the ECC, the KSWG-MS4 Group, the WHPP Committee, private organizations and citizens.	Maintaining existing and adding new or enhanced website links; number of events that discuss importance of and BMPs for riparian properties; materials distributed; communication to select City staff and contractors; participation with collaborative grant projects implementing vegetative strategies.
11	Identify and Educate Entity Specific Contributors of Stormwater Pollutants	Importance of proper management of chemicals and disposal practices; existing City ordinances/regulations.	Business specific sectors; City-wide operations & maintenance; City Environmental Managers.	Target social media to selected business and residential sectors; available website links/information; communication to business owners/managers/operators RE: relevant issues; discussion of issue at presentations/model demonstrations; explore opportunities to communicate issue with businesses during City business (IPP, Cross-Connections, etc.); IDEP brochure. KVCC Ref. C, E & I	Already completed two targeted mailings to commercial business sectors (pressure washing and waste haulers); enhanced website links and new section in 2019; update IDEP brochure. Already have demonstration models. 2017 communicated with Purchasing Manager regarding new opportunities for green supplies and 2019 elimination of glyphosate.	As opportunities exist - Continue to discuss issue during presentations/model demonstrations; 2017 - Integrated objectives with ongoing WHPP Chemical Storage/Inventory Project and 2017 Contaminant Source Inventory added to the City's internal GIS. 2022 update to Chemical Storage/Inventory Project. 2019-21 significant upgrades to PYW Website. 2017 communicated with Purchasing Manager regarding new opportunities for green supplies and 2019 elimination of glyphosate.	COK WRD staff. Other participants may include: KRWC, TMDL Steering Committee, the ECC, the KSWG-MS4 Group, the WHPP Committee, private organizations and citizens.	Continued and enhanced website links; additional website links, text and graphics; material made available to general citizens; number of presentations/model demonstrations that issue was discussed; collaboration with Fire Marshal; collaborative efforts with other organizations; specific contacts with businesses. KVCC Reference F

BMP = Best Management Practices
COK = City of Kalamazoo
CCR = Consumers Confidence Report/Water Quality Report
ECC = Environmental Concerns Committee
EGLE = Michigan Department of Environment, Great Lakes & Energy
GIS = Geographic Information System
IDEP = Illicit Discharge Elimination Program
KRWC = Kalamazoo River Watershed Council

KVCC = Kalamazoo Valley Community College
KSWG-MS4 Group = Kalamazoo Stormwater Working Group - MS4 Collaborative Stormwater Group
NCM = National CineMedia
O & M = Operation and Maintenance
PYW = ProtectYourWater.net
TMDL = Total Maximum Daily Load
WHPP = Wellhead Protection Program
WRD = Water Resources Division



TABLE 4: 2019 Stormwater Outfall Status & Action Plan

1		River/Creek Sub Basin	Specific Water Body Terminus	Historical Inspection Dates/Codes	Field Observation Form Complete	Water Quality Analysis Form Complete	Field Investigation Form Complete	Source Investigation Form Complete	Facility Inspections Complete	Most Recent Code	Condition	Notes	Next Proposed Action
19	STOWKC15459	Kalamazoo River/Mainstem 3	Kalamazoo River	8/18/2004-DFN 5/2005-FSC/EO 6/23/2006-DF 8/24/2015-DF 9/1/2019-DF	8/18/2004 8/24/2015 9/1/2019	8/18/2004			May-05	FSC	30-100+ gpm (Varies)	EA complete at Metro Transit	2019 - Recheck(ed)
35	STOWKC27580	Portage Creek	Portage Creek	7/22/2003-DF 10/5/2004-DF 10/11/2011-DF 8/12/2015-DF 7/11/2019-DF	7/22/2003 10/5/2004 10/11/2011 8/12/2015 7/11/2019 (Initial)	10/23/2003 10/12/2011 8/12/2015 8/21/2019	10/6/2004 10/12/2011	10/6/2004 10/12/2011	N/A	FSC	Measurable, ~2 - 15 gpm with flouride = 0.21 - 0.234 mg/L and no negative characteristics is groundwater infiltration	Infiltration visible in manhole upstream	2019 - Recheck(ed)
91	STOWKC271002	Portage Creek	Portage Creek	7/1/2003-DF 10/5/2004-DF 6/3/2008-DF 6/12/2008-DF 10/13/2011-DF 8/12/2015-DF 7/11/2019-DF	7/1/2003 10/5/2004 6/3/2008 6/12/2008 10/13/2011 8/12/2015 7/11/2019 (Initial)	10/23/2003 6/12/2008 10/13/2011 8/12/2015 8/21/2019	10/6/2004 10/13/2011	10/6/2004 10/13/2011	N/A	FSC	5-10 gpm, lab flouride = 0.081-0.13 mg/L and surfactant < 0.5 mg/L	Groundwater is from City drains	2019 - Recheck(ed)
92	STOWKC231	Mainstem 3	Kalamazoo River	6/7/2005-DF 2009 & 2010-DF 1/5/2011-DF 4/13/2011-DF 9/15/2015-DF	6/7/2005 6/4/2010 1/5/2011 4/13/2011 9/15/2015	6/7/2005 11/1/2010 4/13/2011 9/15/2015	7/15/2005 11/2010	7/15/2005	2008	FSC	2011 Observations were at upstream location near Holland Pallett. Lab flouride = 0.068 and flow appears to be groundwater infiltration.	Flow of 30-40 gpm at outfall. Cross connection with sanitary sewer late Sept. 2009 - Corrected.	2019 - Recheck
114	STOWKC22170	Portage Creek	Portage Creek	6/24/2003-TC 9/1/2004-TC 10/15/2004-NF 8/12/2009-DF 9/2/2015-DF 7/29/2019-NF	6/24/2003 9/1/2004 8/12/2009 9/2/2015 7/29/2019	8/14/2009 9/2/2015 7/29/2019	8/19/2009	8/19/2009	Hageman's Used Furniture - 9/20/2010 Hockstra Hardware - 9/20/2010 Playhouse Barber Shop - 3/30/2011	NF	Lab flouride = 0.6 - 1.01 mg/l	No flow on 7/29/2019.	2019 - Recheck(ed)
123	STOWKC151022	Portage Creek	Portage Creek	6/24/2003-DF 9/14/2004-TC 10/21/2004-DF 5/19/2008-DF 10/20/2009-DF 10/13/2011-DF 9/16/2015-DF 8/12/2019-DF	5/19/2008 10/20/2009 10/13/2011 9/16/2015 8/12/2019	10/31/2003 10/26/2004 5/20/2008 10/13/2011 9/16/2015 9/6/2019	9/10/2004 5/20/2008 10/13/2011	5/20/2008 10/13/2011	Arcus Foundation - 11/5/2008 YWCA - 10/28/2008 Bimbo's Pizza - 10/27/2008 Columbia Plaza - 10/27/2008	FSC	15-20 gpm is from dewatering, lab flouride = 0.234 mg/L and surfactants <0.5 mg/L, no negative characteristics.	No flow in west leg. Flow in north leg from YWCA & Columbia Plaza dewatering. No flow in south leg.	2019 - Recheck(ed)
130	STOWKC145	Mainstem 3	Kalamazoo River	6/22/2005-DF 9/15/2014-DF 7/29/2015-DF 8/14/2019-DF	6/22/2005 9/15/2014 7/29/2015 8/21/2019	6/22/2005 9/15/2014 7/29/2015	7/15/2005 7/29/2015	7/15/2005	Dec-09	FSC	1-2 gpm, lab flouride result = 0.109 mg/l	Several contributory flows	2019 - Recheck(ed)
140	STOWKC28316	Axtell Creek	Axtell Creek	6/18/2003-US 8/10/2004-DF 5/30/2006-DF 9/9/2009-DF 8/21/2014-DF 7/24/2015-DF 7/18/2019-DF	6/18/2003 8/10/2004 9/9/2009 8/21/2014 7/24/2015 7/18/2019	9/30/2003 11/1/2004 9/9/2009 7/29/2019	8/10/2004 9/21/2009	8/10/2004 9/21/2009	WWMT - 9/13/2005 AAA Michigan - 11/2/2005 AZON USA Inc. - 9/6/2005 & 4/19/2006 (Dye) - See STOWKCC213012 Glowing Embers Girl Scout Council - 9/16/2005	FSC	25 - 50 gpm with flouride = 0.000 - 0.13 mg/L and no negative characteristics is groundwater; additional flow from creek backflow	Possibly up to 100 gpm flow due to creek backflow from STOWKCC28325, hydraulically interconnected with STOWKCC28316.	2019 - Recheck(ed)
141	STOWKC28325	Axtell Creek	Axtell Creek	6/18/2003-US 8/10/2004-DF 5/30/2006-DF 9/9/2009-DF 8/21/2014-DF 7/23/2015-DF 7/18/2019-DF	6/18/2003 8/10/2004 9/9/2009 8/21/2014 7/23/2015 7/18/2019	9/30/2003 9/9/2009 7/29/2019	8/10/2004 See STOWKC 28316	8/10/2004 See STOWKC 28316	WWMT - 9/13/2005 AAA Michigan - 11/2/2005 AZON USA Inc. - 9/6/2005 & 4/19/2006 (Dye) - See STOWKCC213012 Glowing Embers Girl Scout Council - 9/16/2005	FSC	25 - 50 gpm with flouride = 0.000 - 0.13 mg/L and no negative characteristics is groundwater; additional flow from creek backflow	Creek water is backing up through outfall and entering creek again via STOWKCC28316, hydraulically interconnected with STOWKCC28325.	2019 - Recheck(ed)

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145	STOWAKC222508	Axtell Creek	Axtell Creek	6/18/2003-TC 9/29/2004-DF 11/22/2005-DFN 6/9/2006-DF 11/10/2010-DF 9/21/2015-DF 8/02/2019-DF	6/18/2003 9/29/2004 11/10/2010 9/21/2015 8/02/2019	9/29/2004 11/16/2010 9/21/2015 8/21/2019	10/18/2004	10/13/2004	Wilson-Brinker Assoc., Inc. - 10/11/2005 & 4/13/2006 (Dye) Smokes On Burdick - 11/8/2005 Vacant Bldg. - 1318 S. Burdick Southtown Naturopathic Center - 11/15/2005 Samantha's Hair Salon - 11/15/2005 Vacant Bldg. - 11/15/2005 Vacant Bldg. - 11/15/2005 Vacant Bldg. - 11/15/2005 Management Plus - 11/21/2005 Galesburg Meat Co. - 10/11/2005 Nagle's Top Dog - 10/5/2005 Rent-A-Center - 10/6/2005 Homeperfect - 10/3/2005 Exclusive Auto Sales - 1/23/2006, 4/25/2006 (Dye) & 8/24/2009 (Follow-up) Northside Auto Repair - 11/10/2005 & 4/25/2006 (Dye) Beltone - 11/3/2005 Benno's Workworking - 8/18/2010	FSC	Flow of 10-15 gpm does not have oily sheen observed in 2005. Illicit floor drain at 1209 S. Burdick eliminated in 2009.	Flow appears to be groundwater; lab flouride = 0.099 mg/l. in 2015; 0.175 mg/L in 2019. Dewatering at 1222 S. Burdick.	2019 - Recheck(ed)
154	STOWKC28306	Axtell Creek	Axtell Creek	6/17/2003-US 9/2/2003-DF 5/30/2006-DF 5/1/2008-DF 8/5/2015-DF 7/15/2019-NF	6/17/2003 8/10/2004 5/5/2008 8/5/2015 7/09/2019	9/30/2003 11/1/2004 5/5/2008 8/21/2019	8/10/2004 5/5/2008	8/10/2004 5/5/2008	AZON USA Inc. - 9/6/2005 & 4/19/2006 (Dye) - See STOWKC213012	FSC	Submerged, 10-40 gpm, low flouride (0.075 - 0.12 ppm), groundwater from City & private dewatering	Flow can also be observed at upstream manholes - adjacent to GW seep.	2019 - Recheck(ed)
156	STOWKC28302	Axtell Creek	Axtell Creek	6/17/2003-US 9/12/2003-DF 8/9/2004-FSC 5/1/2008-DF 8/28/2015-DF 8/01/2019-DF	6/17/2003 8/9/2004 5/5/2008 8/28/2015 8/01/2019	10/8/2003 11/1/2004 5/5/2008 8/28/2015 9/11/2019	8/9/2004 5/5/2008 8/28/2015 8/01/2019	5/5/2008 9/1/2015	Sep-15	DF	City water from leaking pump to trench drain in Station #6, confirmed by dye testing. Problem was rectified.	Flouride lab result - 0.071 - 0.151 ppm. Appears to be GW from high water table.	2019 - Recheck(ed)
157	STOWKC221397	Axtell Creek	Crosstown Ponds	6/17/2003-US 9/12/2003-DF 8/13/2004 TC 6/8/2010-DF 8/17/2015-DF 7/11/2019-DF	6/17/2003 8/13/2004 6/8/2010 8/17/2015 7/11/2019 (Initial)	10/1/2003 6/8/2010 8/17/2015 8/21/2019	8/13/2004 10/21/2010	Nov-05	Harding's Market - 10/23/2007 RX Optical/Park Place Partnership, LLC - 9/21/2005 Solaire Optical - 9/21/2005	FSC	Aqua PVC pipe in catch basin which connects to STMHKC27335.	Flow of 2-5 gpm has flouride = 0.0149 - 0.352 and appears to be groundwater	2019 - Recheck(ed)
173	STOWKC21685	Axtell Creek	Axtell Creek	6/17/2003-DF 4/30/2008 NF 7/27/2011-DF 8/17/2015-DF 7/18/2019-DF	6/17/2003 8/9/2004 4/30/2008 7/27/2011 8/17/2015 7/18/2019	9/30/2003 11/1/2004 7/27/2011 8/17/2015 7/29/2019	8/9/2004 7/27/2011	8/9/2004	Parkway Plastic Surgery - 9/26/2005	FSC	5-7 gpm evident at upstream manhole	Lab flouride = 0.074 - 0.165 ppm, surfactants = <0.5 ppm. Flow is groundwater, probably from City drains.	2019 - Recheck(ed)
230	STOWKC141	Kalamazoo River/Mainstem 3	Kalamazoo River	4/23/2004-DF 6/8/2007-DF 7/17/2014-NF 7/21/2015-NF 7/09/2019-NF	4/23/2004 6/8/2007 7/17/2014 7/21/2015 7/09/2019	4/23/2004	6/19/2007	6/19/2007	N/A	NF	Flow varies from 20-60 gpm due to MDOT dewatering station at viaduct	Flow at outfall is consistent with flow from station - no more flow detected after July 2014.	2019 - Recheck(ed)
231	STOWKC15417	Kalamazoo River/Mainstem 3	Kalamazoo River	4/23/2004-DF 5/23/2007 DF 7/24/2014-DF 7/22/2015-NF 8/09/2019-DF	4/23/2004 7/24/2014 7/22/2015 8/09/2019	4/26/2004 7/24/2014 9/6/2019	6/19/2007	6/19/2007	Oct-07	FSC/ NF - 2015	Outfall submerged, upstream flouride sample results are 0.067 at STILKC143001-2019.	Illicit connection at Kal. County Circuit Court eliminated.	2019 - Recheck(ed)
356	STOWAKC215004	Arcadia Creek	Arcadia Creek	11/21/2006-DF 5/17/2010-NF 9/8/2014 DF 8/13/2015-DF 7/31/2019-DF	11/21/2006 5/17/2010 9/8/2014 8/13/2015 7/31/2019	11/21/2006 5/17/2010 8/13/2015 8/21/2019	N/A	N/A	N/A	FSC	Low flow of about 5 gpm appears to be from GW; Flouride from 0.051 - 0.151 mg/L.		2019 - Recheck(ed)
364	STOWKC364	Kalamazoo River/Mainstem 3	Davis Creek	11/18/2004-DF 11/24/2004-TC 6/7/2007-DF/TC 10/18/2011-DF 8/4/2015-DF 8/13/2019-DF	11/18/2004 6/7/2007 10/18/2011 8/4/2015 8/13/2019	11/24/2004 10/18/2011 8/4/2015 8/21/2019	N/A 10/18/2011	N/A	N/A	FSC	No negative effects. Flouride concentration collected at outfall was 0.15 mg/L (2019), indicative of groundwater/-stormwater.	Flow is from KCRC interconnects	2019 - Recheck(ed)

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367	STOWKC362	Kalamazoo River/Mainstem 3	Davis Creek	11/18/2004-DF 10/18/2011-DF 8/4/2015-DF 7/26/2019-DF	11/18/2004 10/18/2011 8/4/2015 7/26/2019	11/24/2004 10/18/2011 8/4/2015 8/21/2019	5/19/2005 11/2/2011	5/19/2005	2008 & 2009	FSC	15-20 gpm flow with lab flouride = 0.18 - 0.249 mg/L and no negative effects	Flow appears to be groundwater; flow decreases to 1-2 gpm at manhole STMHKC36231	2019 - Recheck(ed)
144	STOWAKC222507	Axtell Creek	Axtell Creek	6/18/2003-TC 9/29/2004-DF 6/9/2006-DF 10/6/2011-DF 9/3/2015-DF 7/2/2019-NF	6/18/2003 9/29/2004 10/6/2011 7/2/2019	9/29/2004 10/6/2011 9/3/2015	10/18/2004 10/6/2011	10/13/2004 10/6/2011	Fifth Third Bank - 11/2/2005 & R Discount Medical - 11/1/2005 George R. Wade Realtor - 11/16/2005 VanderSalm's Florist - 11/2/2005	FSC	Lab flouride = 0.13 - 0.251 mg/L and MBAS = <0.5 mg/L. Groundwater being pumped from basement at VanderSalm's.	Flow 15-20 gpm traced to upstream catch basin at VanderSalm's drive. Some sumps and floor drains may need dye testing.	2019 - Recheck(ed)
175	STOWKC25206	Kalamazoo River/Mainstem 3	Davis Creek	5/9/2005-DF 10/18/2011-DF 8/25/2014-DF 7/27/2015-DF 7/23/2019-DF	5/9/2005 10/18/2011 8/25/2014 7/27/2015 7/23/2019	5/26/2005 7/27/2015 7/29/2019	5/18/2005	5/26/2005	Nov-08	FSC	>10 gpm with no negative characteristics. Collected sample at outfall and upstream manhole, STMHKC203 in 2015 & 2019; flouride is 0.12-014 mg/L indicating groundwater.		2019 - Recheck(ed)
435	STOWKC3412	West Fork Portage Creek	West Fork Portage Creek	10/25/2004-DF 12/2/2009-NF 9/06/2013-DF 9/10/2015-DF 7/17/2019-NF	10/25/2004 12/2/2009 9/06/2013 9/10/2015 7/17/2019		10/25/2004	11/5/2004	11/5/2004	Nov-04	NF	Flow from Mt. Everest Cemetery - in 2013 & 2015. No flow in 2019.	2019 - Recheck
245	STOGKC20396	Arcadia Creek		4/21/2005-CNL 4/22/2005-NF 6/4/2009-NF 9/26/2013-DF 10/17/2013-NF 7/10/2015-NF 6/11/2019-NF	4/21/2005 6/4/2009 9/26/2013 10/17/2013 7/10/2015 6/11/2019	N/A	N/A	N/A	N/A	NF		Initial flow on 9/26/2013 was due to a water main break near a catch basin. This flow ceased when break was repaired, verified on 10/17/2013.	2019 - Recheck(ed)
13	STOWKC25310	Mainstem 3	Davis Creek	9/14/2010-NF 7/16/2015-NF 6/12/2019-NF	9/14/2010 7/16/2015 6/12/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
14	STOGKC25312	Mainstem 3	Davis Creek	9/14/2010-NF 7/16/2015-NF 6/12/2019-NF	9/14/2010 7/15/2015 6/12/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
29	STOWKC34366	Portage Creek	Portage Creek	7/3/2003-NF 10/12/2004-NF 5/22/2008-NF 10/4/2011-NF 7/20/2015-NF 8/12/2019-NF	7/3/2003 10/12/2004 5/29/2008 10/4/2011 7/20/2015 8/12/2019-NF	N/A	N/A	N/A	N/A	NF	Evaluated at upstream manhole	Partially submerged	2019 - Recheck(ed)
30	STOWKC34233	Portage Creek	Portage Creek	7/3/2003-DF 9/27/2004-NF 5/16/2008-NF 6/15/2011-NF 7/20/2015-NF 7/08/2019-NF	7/3/2003 9/27/2004 5/16/2008 6/15/2011 7/20/2015 7/08/2019	N/A	N/A	N/A	N/A	NF	Outfall partially submerged, evaluated at upstream catch basin		2019 - Recheck(ed)
31	STOGKC34237	Portage Creek	Portage Creek	7/22/2003-NF 9/27/2004-NF 5/30/2008-NF 10/10/2011-NF 7/20/2015-NF 7/08/2019-NF	7/22/2003 9/27/2004 5/30/2008 10/10/2011 7/20/2015 7/08/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
34	STOWKC27392	Portage Creek	Portage Creek	7/22/2003-NF 9/22/2004-NF 6/12/2008-NF 9/29/2011-NF 7/16/2015-NF 6/12/2019-NF	7/22/2003 9/22/2004 6/12/2008 9/29/2011 7/16/2015 6/12/2019	N/A	N/A	N/A	N/A	NF	Partially submerged, evaluated at upstream catch basins.		2019 - Recheck(ed)

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43	STOGKC27556	Portage Creek	Portage Creek	7/2/2003-NF 9/27/2004-NF 5/16/2008-NF 9/13/2011-NF 7/16/2015-NF 6/12/2019-NF	7/2/2003 9/27/2004 5/16/2008 9/13/2011 7/16/2015 6/12/2019	N/A	N/A	N/A	N/A	NF	Verified at upstream manhole	Outfall on private property	2019 - Recheck(ed)
50	STOWKC27564	Portage Creek	Portage Creek	7/17/2003-NF 10/5/2004-NF 5/29/2008-NF 9/29/2011-NF 7/16/2015-NF 6/12/2019-NF	7/17/2003 10/5/2004 5/29/2008 9/29/2011 7/16/2015 6/12/2019	N/A	N/A	N/A	Jun-10	NF	Outfall on private property, evaluated at upstream catch basin		2019 - Recheck(ed)
53	STOWKC223528	Portage Creek	Portage Creek	7/16/2003-NF 9/21/2004-NF 6/3/2008-NF 9/29/2011-NF 6/26/2015-NF 7/2/2019-NF	7/16/2003 9/21/2004 6/3/2008 9/29/2011 6/26/2015 7/2/2019	N/A	N/A	N/A	N/A	NF	Submerged, evaluated at upstream manhole		2019 - Recheck(ed)
54	STOWKC223526	Portage Creek	Portage Creek	7/16/2003-NF 9/21/2004-NF 6/2/2008-NF 9/29/2011-NF 6/26/2015-NF 7/2/2019-NF	7/16/2003 9/21/2004 6/2/2008 9/29/2011 6/26/2015 7/2/2019	N/A	N/A	N/A	N/A	NF	Outfall submerged, evaluated upstream		2019 - Recheck(ed)
55	STOWKC223525	Portage Creek	Portage Creek	7/16/2003-NF 9/21/2004-NF 5/30/2008-NF 9/29/2011-NF 6/26/2015-NF 7/2/2019-NF	7/16/2003 9/21/2004 5/30/2008 9/29/2011 6/26/2015 7/2/2019	N/A	N/A	N/A	N/A	NF	Outfall submerged, evaluated upstream		2019 - Recheck(ed)
56	STOWKC221873	Portage Creek	Portage Creek	7/16/2003-NF 9/20/2004-NF 5/30/2008-NF 9/29/2011-NF 6/26/2015-NF 7/1/2019-NF	7/16/2003 9/20/2004 5/30/2008 9/29/2011 6/26/2015 7/1/2019	N/A	N/A	N/A	N/A	NF	Partially submerged, evaluated upstream		2019 - Recheck(ed)
57	STOWKC221915	Portage Creek	Portage Creek	7/16/2003-NF 9/20/2004-NF 5/30/2008-NF 9/29/2011-NF 6/26/2015-NF 7/1/2019-NF	7/16/2003 9/20/2004 5/30/2008 9/29/2011 6/26/2015 7/1/2019	N/A	N/A	N/A	N/A	NF	Partially submerged, evaluated upstream		2019 - Recheck(ed)
58	STOGKC34231	Portage Creek	Portage Creek	7/16/2003-NF 10/13/2004-NF 5/21/2008-NF 6/15/2011-NF 8/03/2015-NF 7/08/2019-NF	7/16/2003 10/13/2004 5/21/2008 6/15/2011 8/03/2015 7/08/2019	N/A	N/A	N/A	N/A	NF	Evaluated at upstream catch basin, outfall overgrown with vegetation	Catch basin STCBKC34230 immediately upstream needs cleaning out (badly).	2019 - Recheck(ed)
59	STOGPC032000	Portage Creek	Portage Creek	7/16/2003-NF 10/13/2004-NF 5/21/2008-NF 10/6/2011-NF 6/26/2015-NF 7/08/2019-NF	7/16/2003 10/13/2004 5/21/2008 10/6/2011 6/26/2015 7/08/2019	N/A	N/A	N/A	N/A	NF	Evaluated upstream, outfall overgrown with vegetation	Catch basin STCBPC031012 immediately upstream needs cleaning out (badly).	2019 - Recheck(ed)
62	STOWKC27447	Portage Creek	Portage Creek	7/16/2003-DF 9/22/2004-DF 11/20/2007-NF 11/28/2007-NF 12/12/2007-NF 9/29/2011-NF 8/21/2015-NF 7/2/2019-NF	7/16/2003 9/22/2004 11/20/2007 11/28/2007 12/12/2007 9/29/2011 8/21/2015 7/2/2019	10/24/03	9/23/2004	9/23/2004	Nov-07	NF	2012 - Enforcement Letter	Storm sewer connection to Portage Creek from "dirty room" at Goodwill Industries on Alcott - (old)	2019 - Recheck(ed)
88	STOWKC34291	Portage Creek	Portage Creek	7/1/2003-NF 9/23/2004-NF 5/16/2008-NF 6/15/2011-NF 7/20/2015-NF 7/08/2019-NF	7/1/2003 9/23/2004 5/16/2008 6/15/2011 7/20/2015 7/08/2019	N/A	N/A	N/A	N/A	NF	Outfall partially submerged, evaluated at upstream manhole		2019 - Recheck(ed)

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101	STOWKC222035	Portage Creek	Portage Creek	6/25/2003-NF 9/21/2004-NF 5/9/2008-NF 9/13/2011-NF 7/1/2015-NF 7/1/2019-NF	6/25/2003 9/21/2004 5/9/2008 9/13/2011 7/1/2015 7/1/2019	N/A	N/A	N/A	N/A	NF	Partially submerged, evaluated at upstream manhole		2019 - Recheck(ed)
102	STOWKC221743	Portage Creek	Portage Creek	6/25/2003-NF 9/20/2004-NF 5/16/2008-NF 9/13/2011-NF 8/21/2015-NF 7/1/2019-NF	6/25/2003 9/20/2004 5/16/2008 9/13/2011 8/21/2015 7/1/2019	N/A	N/A	N/A	N/A	NF	Evaluated at upstream manhole		2019 - Recheck(ed)
103	STOWKC221739	Portage Creek	Portage Creek	6/25/2003-NF 9/20/2004-NF 5/9/2008-NF 9/7/2011-NF 7/1/2015-NF 7/1/2019-NF	6/25/2003 9/20/2004 5/9/2008 9/7/2011 7/1/2015 7/1/2019	N/A	N/A	N/A	N/A	NF	Partially submerged, evaluated at upstream manhole		2019 - Recheck(ed)
104	STOWKC221851	Portage Creek	Portage Creek	6/25/2003-NF 9/20/2004-NF 5/15/2008-NF 9/13/2011-NF 6/26/2015-NF 7/1/2019-NF	6/25/2003 9/20/2004 5/15/2008 9/13/2011 6/26/2015 7/1/2019	N/A	N/A	N/A	N/A	NF	Outfall submerged, evaluated at upstream manhole		2019 - Recheck(ed)
105	STOWKC22591	Portage Creek	Portage Creek	6/25/2003-NF 9/15/2004-NF 5/9/2008-DF 9/5/2011-NF 7/1/2015-NF 6/17/2019-NF	6/25/2003 9/15/2004 5/9/2008 9/7/2011 7/1/2015 6/17/2019	5/9/08	5/9/2008	5/9/2008	N/A	NF			2019 - Recheck(ed)
107	STOWKC222041	Portage Creek	Portage Creek	6/25/2003-NF 9/21/2004-US 10/2004-NF 5/19/2008-NF 9/13/2011-NF 7/1/2015-NF 7/1/2019-NF	6/25/2004 9/21/2004 5/19/2008 9/13/2011 7/1/2015 7/1/2019	N/A	N/A	N/A	N/A	NF	Evaluated at upstream manhole		2019 - Recheck(ed)
110	STOWKC22537	Portage Creek	Portage Creek	6/25/2003-DF 7/2/2003-DF 9/15/2004-NF 5/6/2008-NF 9/7/2011-NF 7/01/2015-NF 6/17/2019-NF	6/25/2003 7/2/2003 9/15/2004 5/6/2008 9/7/2011 7/01/2015 6/17/2019	N/A	N/A	N/A	N/A	NF	Outfall partially submerged	Only two catch basins associated with this outfall	2019 - Recheck(ed)
116	STOWKC223012	Portage Creek	Portage Creek	6/24/2003-NF 9/15/2004-NF 5/6/2008-NF 9/7/2011-NF 7/1/2015-NF 6/17/2019-NF	6/24/2003 9/15/2004 5/6/2008 9/7/2011 7/1/2015 6/17/2019	N/A	N/A	N/A	N/A	NF	Outfall submerged	Freshwater clams	2019 - Recheck(ed)
117	STOWKC15980	Portage Creek	Portage Creek	6/24/2003-NF 9/1/2004-NF 5/6/2008-NF 10/6/2011-NF 7/10/2015-NF 6/18/2019-NF	6/24/2003 9/1/2004 5/6/2008 10/6/2011 7/10/2015 6/18/2019	N/A	N/A	N/A	N/A	NF	Evaluated at upstream manhole, outfall under bridge	Standing water in upstream manhole but no flow	2019 - Recheck(ed)
118	STOWKC15984	Portage Creek	Portage Creek	6/24/2003-NF 7/2/2003-DF 9/1/2004-NF 5/6/2008-NF 10/6/2011-NF 7/10/2015-NF 6/18/2019-NF	6/24/2003 7/2/2003 9/1/2004 5/6/2008 10/6/2011 7/10/2015 6/18/2019	N/A	N/A	N/A	N/A	NF	Evaluated upstream, outfall partially submerged		2019 - Recheck
120	STOWKC22823	Portage Creek	Portage Creek	6/24/2003-NF 9/1/2004-NF 5/8/2008-DF 10/4/2011-NF 7/1/2015-NF 6/17/2019-NF	6/24/2003 9/1/2004 5/8/2008 10/4/2011 7/1/2015 6/17/2019	5/8/2008	5/8/2008	5/8/08	N/A	NF	Rust stains along curbing but no flow at outfall	Several businesses dewatered to this outfall in past years	2019 - Recheck(ed)

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121	STOWAKC222504	Portage Creek	Portage Creek	6/24/2003-NF 9/1/2004-NF 5/6/2008-NF 8/18/2011-NF 7/1/2015-NF 6/17/2019-NF	6/24/2003 9/1/2004 5/6/2008 8/18/2011 7/1/2015 6/17/2019	N/A	N/A	N/A	N/A	NF	Evaluated at upstream manhole, outfall under bridge		2019 - Recheck(ed)
139	STOWAKC222503	Axtell Creek	Axtell Creek	6/18/2003-US 8/13/2004-DF 5/1/2008-DF 10/4/2011-NF 7/2/2015-NF 6/17/2019-NF	6/18/2003 8/13/2004 5/5/2008 10/4/2011 7/2/2015 6/17/2019	8/16/2004 11/1/2004 5/5/2008	8/24/2004 5/5/2008	8/24/2004 5/5/2008	Arthur Washington Center - 10/14/2005	NF			2019 - Recheck(ed)
142	STOWAKC222502	Axtell Creek	Axtell Creek	6/18/2003-US 10/8/2003-NF 8/16/2004-NF 5/15/2008-NF 8/17/2011-NF 7/2/2015-NF 6/17/2019-NF	6/18/2003 8/13/2004 5/15/2008 8/17/2011 7/2/2015 6/17/2019	8/16/2004 8/13/2004	N/A	N/A	N/A	NF	Outfall under ground, evaluated at upstream manhole	Trash (floatables) in standing water	2019 - Recheck(ed)
150	STOWKC28326	Axtell Creek	Axtell Creek	6/18/2003-NF 7/12/2004-NF 5/29/2008-NF 8/4/2011-NF 6/26/2015-NF 6/18/2019-NF	6/18/2003 7/12/2004 5/29/2008 8/4/2011 6/18/2019	N/A	N/A	N/A	N/A	NF	Submerged	Evaluated at upstream manhole	2019 - Recheck(ed)
151	STOWKC28315	Axtell Creek	Axtell Creek	6/18/2003-NF 7/12/2004-NF 5/19/2008-NF 8/4/2011-NF 6/26/2015-NF 6/14/2019-NF	6/18/2003 7/12/2004 5/19/2008 8/4/2011 6/26/2015 6/26/2015 6/14/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
152	STOWAKC222506	Axtell Creek	Axtell Creek	6/18/2003-DF 8/13/2004-NF 12/15/2004-DF 12/15/2004-FSC/IF 4/20/2007-NF 5/18/2007-NF 5/31/2007-NF 8/17/2011-NF 7/2/2015-NF 6/17/2019-NF	6/18/2003 8/13/2004 4/20/2007 5/18 & 31/2007 8/17/2011 7/2/2015 6/17/2019	11/13/2003	N/A	N/A	N/A	NF	Outfall under ground, evaluated at upstream manhole, CATCH BASINS		2019 - Recheck
155	STOWKC21688	Axtell Creek	Axtell Creek	6/17/2003-US 7/2/2003-DFN 8/9/2004-FSC 4/30/2008-NF 7/27/2011-NF 6/26/2015-NF 6/14/2019-NF	6/17/2003 7/2/2003 4/30/2008 7/27/2011 6/26/2015 6/14/2019	10/1/2003 11/1/2004	8/9/2004	N/A	N/A	NF			2019 - Recheck(ed)
159	STOWKC282004	Axtell Creek	Axtell Creek	6/17/2003-NF 8/14/2003-IF 8/29/2003-TC 10/2004-NF 5/19/2008-NF 8/4/2011-NF 6/26/2015-NF 8/12/2019-NF	6/17/2003 10/04 5/19/2008 8/4/2011 6/26/2015 8/12/2004	N/A	8/17/2004	N/A	N/A	NF	Partially submerged	Evaluated upstream	2019 - Recheck(ed)
160	STOWKC221131	Axtell Creek	Crosstown Ponds	6/17/2003-NF 7/12/2004-NF 7/11/2008-NF 7/25/2011-NF 7/2/2015-NF 6/18/2019-NF	6/17/2003 7/12/2004 7/11/2008 7/26/2011 7/2/2015 6/18/2019	N/A	N/A	N/A	N/A	NF	Outfall is submerged and overgrown with vegetation	Evaluated at upstream catch basin	2019 - Recheck(ed)
161	STOWKC224021	Axtell Creek	Crosstown Ponds	6/17/2003-NF 7/12/2004-NF 7/11/2008-NF 7/25/2011-NF 7/2/2015-NF 6/18/2019-NF	6/17/2003 7/12/2004 7/11/2008 7/26/2011 7/2/2015 6/18/2019	N/A	N/A	N/A	N/A	NF	Outfall is submerged	Evaluated at upstream catch basins	2019 - Recheck(ed)

1		River/Creek Sub Basin	Specific Water Body Terminus	Historical Inspection Dates/Codes	Field Observation Form Complete	Water Quality Analysis Form Complete	Field Investigation Form Complete	Source Investigation Form Complete	Facility Inspections Complete	Most Recent Code	Condition	Notes	Next Proposed Action
162	STOWKC221129	Axtell Creek	Crosstown Ponds	6/17/2003-NF 7/12/2004-NF 7/10/2008-NF 7/25/2011-NF 7/2/2015-NF 6/18/2019-NF	6/17/2003 7/12/2004 7/10/2008 7/26/2011 7/2/2015 6/18/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
163	STOWKC221399	Axtell Creek	Crosstown Ponds	6/17/2003-NF 7/12/2004-NF 7/10/2008-NF 7/25/2011-NF 7/10/2015-NF 6/18/2019-NF	6/17/2004 7/12/2004 7/10/2008 7/26/2011 7/10/2015 6/18/2019	N/A	N/A	N/A	N/A	NF		Sediment at outfall	2019 - Recheck(ed)
164	STOWKC221389	Axtell Creek	Crosstown Ponds	6/17/2003-NF 7/12/2004-NF 7/10/2008-NF 7/25/2011-NF 7/10/2015-NF 6/18/2019-NF	6/17/2003 7/12/2004 7/10/2008 7/26/2011 7/10/2015 6/18/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
165	STOWKC224015	Axtell Creek	Crosstown Ponds	6/17/2003-NF 7/12/2004-NF 7/10/2008-NF 7/25/2011-NF 7/10/2015-NF 6/18/2019-NF	6/17/2003 7/12/2004 7/10/2008 7/26/2011 7/10/2015 6/18/2019	N/A	N/A	N/A	N/A	NF	Submerged	Evaluated at upstream manhole	2019 - Recheck(ed)
166	STOWKC221139	Axtell Creek	Crosstown Ponds	6/17/2003-NF 7/12/2004-NF 7/10/2008-NF 7/25/2011-NF 7/2/2015-NF 6/18/2019-NF	6/17/2003 7/12/2004 7/10/2008 7/26/2011 7/2/2015 6/18/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
168	STOWKC221141	Axtell Creek	Crosstown Ponds	6/17/2003-NF 8/13/2003-DF 9/12/2003-TC 10/22/2004-NF 7/10/2008-NF 7/25/2011-NF 7/2/2015-NF 6/18/2019-NF	6/17/2003 10/22/2004 7/10/2008 7/26/2011 7/2/2015 6/18/2019	N/A	N/A	N/A	N/A	NF	Dye testing confirmed no flow	Outfall may be submerged, could not locate	2019 - Recheck(ed)
169	STOWKC221133	Axtell Creek	Crosstown Ponds	6/17/2003-NF 7/21/2004-NF 7/11/2008-NF 7/25/2011-NF 7/2/2015-NF 6/18/2019-NF	6/17/2003 7/21/2004 7/11/2008 7/26/2011 7/2/2015 6/18/2019	N/A	N/A	N/A	N/A	NF	Outfall is submerged	Evaluated at upstream manhole	2019 - Recheck(ed)
171	STOWKC21649	Axtell Creek	Axtell Creek	6/17/2003-DF 7/12/2004-NF 7/12/2004-FSC 4/30/2008-NF 7/27/2011-NF 6/26/2015-NF 6/14/2019-NF	6/17/2003 7/12/2004 4/30/2008 7/27/2011 6/26/2015 6/14/2019	N/A	N/A	N/A	N/A	NF	Partially submerged, evaluated upstream	Groundwater was previous source	2019 - Recheck(ed)
174	STOWKC223014	Axtell Creek	Crosstown Ponds	6/17/2003-CNL 7/12/2004-NF 7/11/2008-NF 7/25/2011-NF 7/2/2015-NF 6/18/2019-NF	6/17/2003 7/12/2004 7/11/2008 7/26/2011 7/2/2015 6/18/2019	N/A	N/A	N/A	N/A	NF	Submerged outfall	Evaluated at upstream manhole	2019 - Recheck(ed)
191	STOGKC252004	Mainstem 3	Davis Creek	5/17/2005-DF 5/23/2005-IF 5/31/2005-DF 11/2/2011-NF 7/16/2015-NF 6/12/2019-NF	5/17/2005 11/2/2011 7/16/2015 6/12/2019	5/17/2005	5/31/2005	5/31/2005	2008	NF	Previous flow at Globe Construction not evident this year.		2019 - Recheck(ed)
222	STOWKC19398	Arcadia Creek		4/25/2005-NF 7/31/2009-DF NF-2010 7/21/2015-NF 6/11/2019-NF	4/25/2005 7/31/2009 8/27/2010 9/13/2010 7/21/2015 6/11/2019	N/A 7/31/2009	8/4/2009	8/4/2009	2009	NF	Flow from Clayborne Ct. has not been observed during periodic checks in 2010	Flouride = 0.9 ppm (2009)	2019 - Recheck(ed)

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266	STOWKC29375	Axtell Creek	Woods Lake	4/12/2005-NF 9/3/2009-NF 6/26/2015-NF 7/2/2019-NF	4/12/2005 9/3/2009 6/26/2015 7/2/2019	N/A	N/A	N/A	N/A	NF	Evaluated at upstream manhole		2019 - Recheck(ed)
317	STOWKC31131	West Fork Portage Creek	Cherry Creek Lake	11/8/2004-NF 8/11/2008-NF 7/22/2011-NF 8/19/2015-NF 7/22/2019-NF	11/8/2004 8/11/2008 7/26/2011 8/19/2015 7/22/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
318	STOWKC31132	West Fork Portage Creek	Cherry Creek Lake	11/8/2004-NF 8/11/2008-NF 7/22/2011-NF 8/19/2015-NF 7/22/2019-NF	11/8/2004 8/11/2008 7/22/2011 8/19/2015 7/22/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
319	STOGKC31106	West Fork Portage Creek		11/8/2004-NF 8/11/2008-NF 7/22/2011-NF 8/20/2015-NF 7/22/2019-NF	11/8/2004 8/11/2008 7/22/2011 8/20/2015 7/22/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
320	STOWKC3197	West Fork Portage Creek	West Fork Portage Creek	11/8/2004-NF 8/11/2008-NF 7/22/2011-NF 8/20/2015-NF 7/22/2019-NF	11/8/2004 8/11/2008 7/22/2011 8/20/2015 7/22/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
321	STOGKC31142	West Fork Portage Creek		11/8/2004-NF 8/11/2008-NF 7/22/2011-NF 8/20/2015-NF 8/12/2019-NF	11/8/2004 8/11/2008 7/26/2011 8/20/2015 8/12/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
322	STOGKC31143	West Fork Portage Creek		11/8/2004-NF 8/11/2008-NF 7/22/2011-NF 8/20/2015-NF 8/12/2019-NF	11/8/2004 8/11/2008 7/26/2011 8/20/2015 8/12/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
323	STOGKC31148	West Fork Portage Creek		11/8/2004-NF 8/11/2008-NF 7/22/2011-NF 8/24/2015-NF 8/12/2019-NF	11/8/2004 8/11/2008 7/26/2011 8/24/2015 8/12/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
324	STOWKC31130	West Fork Portage Creek	Cherry Creek Lake	11/8/2004-NF 8/11/2008-NF 8/28/2008-NF 7/22/2011-NF 8/19/2015-NF 7/22/2019-NF	11/8/2004 8/11/2008 8/28/2008 7/26/2011 8/19/2015 7/22/2019	N/A	8/14/2008	N/A	N/A	NF	Three consecutive visits in 2008 resulted in NF determination. Previous flow probably irrigation.	8/28/2008-NF 9/11/2008-NF 9/18/2008-NF	2019 - Recheck(ed)
325	STOWKC31133	West Fork Portage Creek	Willow Lake	11/8/2004-NF 6/18/2008-NF 7/22/2011-NF 8/19/2015-NF 7/22/2019-NF	11/8/2004 6/18/2008 7/22/2011 8/19/2015 7/19/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
326	STOWKC31220	West Fork Portage Creek	Willow Lake	11/8/2004-NF 6/18/2008-NF 7/22/2011-NF 8/19/2015-NF 7/22/2019-NF	11/8/2004 6/18/2008 7/22/2011 8/19/2015 7/22/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
327	STOWKC32448	West Fork Portage Creek	Drainage Basin on Wood Street	11/4/2004-NF 7/31/2008-NF 10/12/2011-NF 7/8/2015-NF 6/5/2019-NF	11/4/2004 7/31/2008 10/12/2011 7/8/2015 6/5/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
328	STOGKC32346	West Fork Portage Creek		11/4/2004-NF 7/31/2008-NF 10/12/2011-NF 7/8/2015-NF 6/5/2019-NF	11/4/2004 7/31/2008 10/12/2011 7/8/2015 6/5/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
329	STOGKC32161	West Fork Portage Creek		11/3/2004-NF 7/29/2008-NF 10/12/2011-NF 7/8/2015-NF 7/19/2019-NF	11/3/2004 7/29/2008 10/12/2011 7/8/2015 7/19/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)

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330	STOGKC32278	West Fork Portage Creek		11/3/2004-NF 7/29/2008-NF 10/12/2011-NF 7/8/2015-NF 7/09/2019-NF	11/3/2004 7/29/2008 10/12/2011 7/8/2015-NF 7/09/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
331	STOGKC321010	West Fork Portage Creek		11/3/2004-NF 7/29/2008-NF 10/12/2011-NF 7/8/2015-NF 7/16/2019-NF	11/3/2004 7/29/2008 10/12/2011 7/8/2015 7/09/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
353	STOWKC16639	Arcadia Creek	Arcadia Creek	11/21/2006-NF 9/27/2010-NF 7/10/2015-NF 7/31/2019-NF	11/21/2006 9/27/2010 7/10/2015 7/31/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
370	STOWAKC223500	Axtell Creek	Axtell Creek	11/14/2003-CNL 11/17/2003-NF 7/12/2004-NF 7/11/2008-NF 8/17/2011-NF 7/2/2015-NF 7/09/2019-NF	11/14/2003 7/12/2004 7/11/2008 8/17/2011 7/2/2015 7/09/2019	N/A	N/A	N/A	N/A	NF	Outfall is under road	Evaluated at upstream catch basins	2019 - Recheck(ed)
397	STOWAKC151280	Arcadia Creek	Arcadia Creek	10/9/2006-NF 9/15/2010-NF 10/10/2016-NF 9/27/2019-NF	10/9/2006 9/15/2010 10/10/2016 9/27/2019	N/A	N/A	N/A	N/A	NF		Evaluated at upstream manhole	2019 - Recheck(ed)
425	STOGKC33332	West Fork Portage Creek		10/25/2004-NF 7/9/2008-NF 10/11/2011-NF 8/11/2015-NF 7/16/2019-NF	10/25/2004 7/9/2008 10/11/2011 8/11/2015 7/16/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
426	STOGKC32318	West Fork Portage Creek		10/25/2004-NF 7/7/2008-NF 10/11/2011-NF 8/11/2015-NF 7/16/2019-NF	10/25/2004 7/7/2008 10/11/2011 8/11/2015 7/16/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
427	STOWKC3274	Axtell Creek	Drainage Basin at Laird & Benton	10/25/2004-NF 7/29/2008-NF 11/2/2011-NF 7/8/2015-NF 6/5/2019-NF	10/25/2004 7/29/2008 11/2/2011 7/8/2015 6/5/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck
428	STOWKC3275	Axtell Creek	Drainage Basin at Laird & Benton	10/25/2004-NF 7/29/2008-NF 11/2/2011-NF 7/8/2015-NF 6/5/2019-NF	10/25/2004 7/29/2008 11/2/2011 7/8/2015 6/5/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck
429	STOGKC33302	West Fork Portage Creek		10/25/2004-NF 6/23/2008-NF 10/11/2011-NF 8/11/2015-NF 7/16/2019-NF	10/25/2004 6/23/2008 10/11/2011 8/11/2015 7/9/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
430	STOWKC331009	West Fork Portage Creek	White's Lake	10/25/2004-NF 6/23/2008-NF 10/11/2011-NF 8/11/2015-NF 7/16/2019-NF	10/25/2004 6/23/2008 10/11/2011 8/11/2015 7/9/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
431	STOWKC33228	West Fork Portage Creek	White's Lake	10/25/2004-NF 6/23/2008-NF 10/11/2011-NF 7/28/2015-NF 7/16/2019-NF	10/25/2004 6/23/2008 10/11/2011 7/28/2015 7/9/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
432	STOGKC3410	West Fork Portage Creek	West Fork Portage Creek	10/25/2004-NF 6/2/2008-NF 10/10/2011-NF 8/03/2015-NF 7/17/2019-NF	10/25/2004 6/2/2008 10/10/2011 8/03/2015 7/17/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
433	STOGKC3416	West Fork Portage Creek	West Fork Portage Creek	10/25/2004-NF 6/2/2008-NF 6/15/2011-NF 8/03/2015-NF 7/17/2019-NF	10/25/2004 6/2/2008 6/15/2011 8/03/2015 7/17/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)

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434	STOGKC3417	West Fork Portage Creek	West Fork Portage Creek	10/25/2004-NF 6/2/2008-NF 6/15/2011-NF 8/03/2015-NF 7/17/2019-NF	10/25/2004 6/2/2008 10/10/2011 8/03/2015 7/17/2019	N/A	N/A	N/A	N/A	NF			2019 - Recheck(ed)
436	STOGKC271003	Portage Creek	Portage Creek	10/23/2003-NF 10/5/2004-NF 6/18/2008 NF 10/10/2011-NF 7/16/2015-NF 8/19/2019-NF	10/23/2003 10/5/2004 6/18/2008 10/10/2011 7/16/2015 8/19/2019	N/A	N/A	N/A	N/A	NF	Outfall structure not visible, appears to flow out on hillside under large tree roots		2019 - Recheck(ed)
437	STOGKC271012	Portage Creek	Portage Creek	10/23/2003-DF 10/21/2004-DF 6/3/2008 NF 6/18/2008-NF 6/25/2008-NF 10/10/11- NF 7/20/2015-NF 6/12/2019-NF	10/23/2003 9/27/2004 6/3/2008 10/10/2011 7/20/2015 6/12/2019	10/23/03	10/4/2004	10/21/2004	N/A	NF	Evaluated at upstream manhole & catch basin		2019 - Recheck(ed)
398	STOWAKC151292	Arcadia Creek	Arcadia Creek	10/9/2006-NF 9/15/2010 DF 9/22/2015-DF 8/05/2019-DF	10/9/2006 9/15/2010 9/22/2015 8/05/2019	9/15/2010 9/22/2015 8/21/2019	9/16/2010 9/22/2015	9/16/2010	2011	FSC	17+ gpm with flouride = 0.16 ppm in 2019	Dye testing revealed source of flow is Radisson.	2019 - Recheck(ed)
119	STOWKC22937	Portage Creek	Portage Creek	6/24/2003-NF 11/10/2003-DF 9/1/2004 DFN 6/6/2006-DF 8/12/2009 8/12/2009-NF 5/25/2012 NF 8/16/2013-NF 7/1/2015-NF 7/2/2019- NF	6/24/2003 9/1/2004 8/12/2009 5/25/2012 8/16/2013 7/1/2015 7/2/2019	11/13/03	9/13/2004	9/14/2004	Superior Colour Graphics - 5/25/2005 Mostly Jaguar - 5/26/2005 DMS Electric - 8/2/2005	NF	Evaluated upstream, outfall partially submerged - 2013		2019 - Recheck(ed)
255	STOWKC19372	Arcadia Creek		4/14/2005-DF 5/4/2005- TC 6/14/2007-DF 8/14/2014-DF 6/14/18- DF	4/15/2005 8/14/2014 7/2/18	4/18/2005 7/02/2018	5/4/2005 7/02/2018	6/19/2007	N/A	DF	50+ gpm (EST.) evaluated at upstream catch basin STCBKC191006, lab flouride = 0.108 mg/l [Lab FI=0.156 @ STMHCK19307], appears to be groundwater. Most flow appears to originate near manhole STMHCK191008, at intersection of Drake Rd with KL Ave.	Traced flow as far as Drake & KL Ave. where it enters K City from Oshtemo Township.	2018 - Recheck(ed)
36	STOGKC271000	Portage Creek	Portage Creek	7/22/2003-DF 10/15/2004-DF 5/23/2007-DF 7/30/2014- DF	7/22/2003 10/15/2004 7/30/2014	10/23/2003 Lab 5/24/07 7/30/2014	10/7/2004	10/7/2004	N/A	FSC	Measurable, ~50 gpm with flouride = 0.073 mg/L and no negative characteristics.	Appears to be groundwater.	2018 - Recheck(ed)
40	STOGKC09299	Mainstem 3	Kalamazoo River	7/20/2005-DF 5/20/2009- US 7/25/2014-US 9/13/2018-US	7/20/2005 5/20/2009 7/25/2014 9/24/2018	7/20/2005 7/25/2014	N/A	N/A	N/A	FSC	Traced flow back to STMHCK09345. Flow enters into this manhole from the north. County Drain	40-100 gpm flow. Lab flouride result = 0.12 mg/L; County Drain	2018 - Recheck(ed)
41	STOGKC09303	Mainstem 3	Kalamazoo River	7/20/2005-DF 8/11/2005 US 5/20/2009-US 7/25/2014-US 9/13/2018-US	7/20/2005 5/20/2009 7/25/2014 9/24/2018	7/20/2005 7/25/2014	N/A	N/A	N/A	FSC	Stream flows through outfall. Lab flouride result = 0.14 mg/l	Lab flouride result = 0.17 mg/L; 8-10 gpm; County Drain	2018 - Recheck(ed)
42	STOGKC09419	Mainstem 3	Kalamazoo River	7/20/2005-DF 12/3/2009 DF 7/25/2014-US 9/13/2018-NF	7/20/2005 5/20/2009 7/25/2014 9/13/2018	7/20/2005 12/7/2009 7/25/2014	8/22/2005 12/3/2009	8/22/2005 12/3/2009	N/A	NF	Per IDC APP Part 2, A.M. Todd is discharging ~175 gpm avg; No Flow on 9/13/2018	Lab flouride result = 1.01 mg/l	2018 - Recheck(ed)
63	STOWKC27449	Portage Creek	Portage Creek	7/16/2003-DF 9/22/2004- DF 4/22/2010-DF 8/14/2014-DF 7/25/2018-DF	7/16/2003 9/22/2004 4/22/2010 8/14/2014 7/25/2018	10/24/2003 4/22/2010 8/013/2018	9/23/2004 4/22/2010	9/23/2004 4/22/2010	Jan-06	FSC	Measurable, >100 GPM, lab flouride = 0.10 - 0.16 mg/l	Flow from Strebor NPDES Permit for remediated groundwater	2018 - Recheck(ed)

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86	STOWKC117	Mainstem 3	Spring Valley Lake	7/11/2005-NF 7/31/2009 DF 4/20/2010-DF 7/11/2014-DF 6/18/2018-DF	7/11/2005 7/31/2009 4/20/2010 7/11/2014	7/31/2009 5/6/2010	8/5/2009 5/6/2010	8/5/2009 5/6/2010	N/A	FSC	Flouride = 0.6 - 0.87 mg/l; total Phosphorus = 1.22 mg/L, flow < 5 -25 gpm	Traced flow to Kalamazoo Township (vicinity of Borgess Hospital)	2018 - Recheck(ed)
90	STOWKC341010	Portage Creek	Portage Creek	7/1/2003-DF 9/22/2004-DF 10/15/04-FSC 5/13/2008 DF 9/3/2014-DF 7/19/2018-DF	7/1/2003 5/13/2008 9/3/2014 7/19/2018	10/22/2003 5/13/2008 9/03/2014 7/23/2018	9/23/2004 5/19/2008	N/A	N/A	FSC	>100 gpm, no negative characteristics, lab flouride = 0.1 - 0.25 ppm	Per D. Skalski, flow originates from drains in area	2018 - Recheck(ed)
113	STOWKC223007	Portage Creek	Portage Creek	6/24/2003-US 9/3/2003- DF 9/1/2004-DF 6/4/2010-DF 7/24/2014 DF 6/15/2018-DF	6/24/2003 9/1/2004 6/4/2010 7/24/2014 6/15/2018	10/20/2003 11/1/2004 10/13/2010 7/24/2014	9/14/2004 10/20/2010	9/14/2004	Bronson Hospital - 8/20/2008	FSC	1-2 gpm appears to be groundwater infiltration, lab flouride = 0.16. Inspection of only possible contributor, Bronson Hospital, revealed no connection to storm sewer.	Blockage between upstream manhole and outfall. Standing water at manhole with floating debris. Structure of outfall indicates problems, possibly settlement	2018 - Recheck(ed)
153	STOGKC28359	Axtell Creek	Axtell Creek	6/18/2003-DF 8/13/2004- DF 3/31/2005-EAN 5/30/2006-DF 4/20/2010- DF 7/29/2014-DF 8/20/2018-DF	6/18/2003 8/13/2004 4/20/2010 7/29/2014 8/28/2018	9/30/2003 11/1/2004 4/20/2010 7/29/2014 8/29/2018	8/16/2004 4/20/2010 8/20/2018	8/16/2004 4/20/2010	YMCA - 3/10/2005	FSC	50+ gpm is groundwater, lab flouride 0.077	Foundation Drain at YMCA	2018 - Recheck(ed)
158	STOWKC213012	Axtell Creek	Axtell Creek	6/17/2003-TC 10/13/2004-DF 5/30/2006-DF 5/1/2008- DF 9/8/2014-DF 8/24/2018-DF	6/17/2003 10/2004 5/1/2008 9/8/2014 8/24/2018	10/13/2004 5/2/2008 9/24/2018	10/22/2004 5/1/2008	10/22/2004 5/1/2008	AZON USA Inc. - 9/6/2005 & 4/19/2006 (Dye)	FSC	Submerged, evaluated at upstream manhole STMHKC21843, lab flouride - 0.056 - 0.187 ppm	~20 gpm is from underground dewatering	2018 - Recheck(ed)
229	STOWAKC156000	Kalamazoo River/Mainstem 3	Kalamazoo River	4/23/2004-DFN 5/25/2005-DF 5/18/2007- DF 7/17/2014-DF 8/02/2018-DF	4/23/2004 5/18/2007 5/31/2007 6/19/2007 7/17/2014 8/02/2018	4/23/2004 5/18/2007 7/17/2014	6/21/2007	N/A	N/A	FSC	~1 gpm, lab flouride = 017 - 0.22 mg/l, flow appears to be groundwater	Only sheen on one visit in 2004 has not been observed during multiple visits in recent years	2018 - Recheck(ed)
232	STOWKC15373	Kalamazoo River/Mainstem 3	Kalamazoo River	4/23/2004-DF 4/20/2007- DF 5/23/2007-DF 6/1/2007-DF 9/17/2014- DF 8/02/2018-DF	4/23/2004 4/20/2007 5/23/2007 6/1/2007 9/17/2014 8/02/2018	4/26/2004	N/A	N/A	N/A	FSC	Submerged outfall, trace flow (< 10 gpm) observed at upstream manholes appears to be infiltration	There is a visible "ring of dampness" around the sidewalls at the lower portions of the manholes with small streams of infiltration visible through cracks in the structures	2018 - Recheck(ed)
349	STOWKC21187	Arcadia Creek	Arcadia Creek	11/22/2006-DF 5/17/2010-DF 7/31/2014-DF 7/12-13/2018-DF	11/22/2006 5/17/2010 7/31/2014	11/27/2006 5/17/2010 7/31/2014	12/12/2006 5/18/2010 8/20/2014	12/12/2006 5/18/2010	N/A	FSC	5-10 gpm, flow is groundwater from dewatering, overflow from Goldsworth Pond and infiltration	Flow from west leg along Michigan Avenue is likely due to a nearby leaky COK hydrant and/or water line. 2014	2018 - Recheck(ed)
406	STOWAKC152204	Arcadia Creek	Arcadia Creek	10/9/2006-DF 9/9/2014- DF 8/14/2018-DF	10/9/2006 9/9/2014 8/14/2018	10/10/2006 9/9/2014 8/29/2018	10/30/2006 9/22/2008	10/30/2006	N/A	FSC	>15 gpm with no negative effects, lab flouride = 0.61 - 1.06 ppm	Flow is from HVAC units in Kalamazoo Building	2018 - Recheck(ed)
442	STOWAKC151278	Arcadia Creek	Arcadia Creek	10/16/2006-NF 9/21/2010-NF 8/28/2014-DF 7/27/2018-DF	10/16/2006 9/21/2010 8/28/2014 7/27/2018	No - unable to safely collect sample for analysis	8/28/2014	8/28/2014	N/A	FSC		Flow confirmed as groundwater pumped by sump pump from W Mich Cancer Center from 200 N Park St	2018 - Recheck(ed)
448	STOWAKC151282	Arcadia Creek	Arcadia Creek	10/10/2006-DF 6/18/2007-DF 6/21/2007- DF 9/17/2014-DF 8/16/2018-DF	10/10/2006 6/18/2007 6/21/2007 9/17/2014 8/16/2018	10/10/2006 9/17/2014 8/16/2018	6/21/2007	6/21/2007	N/A	FSC	Verified source of 5-6 gpm flow is AC unit for IT Dept. at City Hall. Bronson Park pools now have connection to sanitary and storm sewers.	Additional flow from east leg of Water St. appears to be groundwater. Lab flouride result = 0.178 mg/l	2018 - Recheck(ed)

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424	STOWAKC162228	Arcadia Creek	Arcadia Creek	10/30/2006-DFN 12/16/2010-NF 9/8/2014-NF 8/23/2018-NF	10/30/2006 12/16/2010 9/8/2014 8/23/2018	10/30/2006	10/30/2006	10/30/2006	Sep-09	NF	Lab flouride = 1.14 ppm (OLD)	Former illicit connection to storm sewer at Bunca Car Wash corrected in 2010 . Floor drains at Signwriter & Fireplace & Grill need dye testing.	2018 - Recheck(ed)
6	STOWAKC152304	Arcadia Creek	Arcadia Creek	9/28/2006-NF 5/27/2010-NF 6/27/2014-NF 7/24/2018-NF	9/28/2006 5/27/2010 6/27/2014 7/24/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin(s)	2018 - Recheck(ed)
7	STOWAKC152219	Arcadia Creek	Arcadia Creek	9/28/2006-NF 5/26/2010-NF 7/10/2014-NF 6/12/2018-NF	9/28/2006 5/26/2010 7/10/2014 6/12/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin(s)	2018 - Recheck(ed)
8	STOWAKC152218	Arcadia Creek	Arcadia Creek	9/28/2006-NF 5/26/2010-NF 7/10/2014-NF 6/12/2018-NF	9/28/2006 5/26/2010 7/10/2014 6/12/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin(s)	2018 - Recheck(ed)
9	STOWAKC152217	Arcadia Creek	Arcadia Creek	9/28/2006-NF 5/26/2010-NF 6/27/2014-NF 7/24/2018-NF	9/28/2006 5/26/2010 6/27/2014 7/24/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin(s)	2018 - Recheck(ed)
10	STOWAKC152216	Arcadia Creek	Arcadia Creek	9/28/2006-NF 5/26/2010-NF 6/27/2014-NF 7/24/2018-NF	9/28/2006 5/26/2010 6/27/2014 7/24/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin(s)	2018 - Recheck(ed)
11	STOWAKC152207	Arcadia Creek	Arcadia Creek	9/28/2006-NF 5/27/2010-NF 6/27/2014-NF 7/24/2018-NF	9/28/2006 5/27/2010 6/27/2014 7/24/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin(s)	2018 - Recheck(ed)
97	STOWAKC152303	Arcadia Creek	Arcadia Creek	6/27/2014-NF 6/12/2018-NF	9/28/2006 5/27/2010 6/12/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin(s)	2018 - Recheck(ed)
106	STOWKC22565	Portage Creek	Portage Creek	6/25/2003-NF 9/15/2004-DFN 5/30/2006-NF 5/26/2010-NF 9/5/2014-NF 6/6/2018-NF	6/25/2003 9/15/2004 5/26/2010 9/5/2014 6/6/2018	9/17/04	9/21/2004	9/21/2004	N/A	NF	Evaluated at upstream catch basins & manhole		2018 - Recheck(ed)
115	STOWKC22555	Portage Creek	Portage Creek	6/24/2003-NF 9/3/2003-DF 10/2003-NF 11/10/2003-DF 9/15/2004-DF 9/03/2013-NF 5/30/2018-NF	6/24/2003 9/15/2004 9/03/2013 5/30/2018	11/13/2003 11/1/2004	9/17/2004	9/21/2004	Bronson Hospital - 8/20/2008	NF	Intermittent flow is groundwater, flouride = 0.2 ppm		2018 - Recheck(ed)
294	STOGKC102001	Mainstem 3	Kalamazoo River	12/15/2006-NF 10/18/2010-NF 7/16/2014-NF 7/17/2018-NF	12/18/2006 10/18/2010 7/16/2014 7/17/2018	N/A	N/A	N/A	N/A	NF			2018 - Recheck(ed)
308	STOGKC32438	West Fork Portage Creek		11/9/2004-NF 8/14/2008-NF 6/14/2013-NF 8/27/2014-NF 6/12/2018-NF	11/9/2004 8/14/2008 6/14/2013 8/27/2014 6/12/2018	N/A	N/A	N/A	N/A	NF			2018 - Recheck(ed)
332	STOGKC215011	Arcadia Creek	Arcadia Creek	11/29/2006-NF 9/30/2010-NF 8/20/2014-NF 4/10/2018-NF	11/29/2006 9/30/2010 8/20/2014 4/10/2018	N/A	N/A	N/A	N/A	NF			2018 - Recheck(ed)
333	STOGKC215012	Arcadia Creek	Arcadia Creek	11/29/2006-NF 9/30/2010-NF 8/20/2014-NF 4/10/2018-NF	11/29/2006 9/30/2010 8/20/2014 4/10/2018	N/A	N/A	N/A	N/A	NF		Catch basin STCBKC211062 is partially filled with sediments - 2018.	2018 - Recheck(ed)
340	STOWAKC215009	Arcadia Creek	Arcadia Creek	11/27/2006-NF 9/30/2010-NF 8/20/2014-NF 6/6/2018-NF	11/27/2006 9/30/2010 8/20/2014 6/6/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin, that is breaking up - 6/6/2018	2018 - Recheck(ed)
342	STOGKC191116	Mainstem 3	Kalamazoo River	11/23/2010-NF 8/20/2014-NF 8/03/2018-NF	11/23/2010 8/20/2014 8/03/2018	N/A	N/A	N/A	N/A	NF			2018 - Recheck(ed)

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343	STOGKC191067	Mainstem 3	Kalamazoo River	11/23/2010-NF 8/20/2014-NF 8/03/2018-NF	11/23/2010 8/20/2014 8/03/2018	N/A	N/A	N/A	N/A	NF			2018 - Recheck(ed)
344	STOGKC191091	Mainstem 3	Kalamazoo River	11/23/2010-NF 8/20/2014-NF 8/03/2018-NF	11/23/2010 8/20/2014 8/03/2018	N/A	N/A	N/A	N/A	NF			2018 - Recheck(ed)
352	STOWKC164008	Arcadia Creek	Arcadia Creek	11/21/2006-NF 9/27/2010-NF 8/6/2014-NF 6/1/2018-NF	11/21/2006 9/27/2010 8/12/2014 6/1/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin	2018 - Recheck(ed)
371	STOWKC16365	Arcadia Creek	Arcadia Creek	11/13/2006-NF 9/27/2010-NF 8/12/2014-NF 6/1/2018-NF	11/13/2006 9/27/2010 8/12/2014 6/1/2018	N/A	N/A	N/A	N/A	NF		Evaluated at structure, cement at structure is crumbling - 2014	2018 - Recheck(ed)
372	STOWAKC162202	Arcadia Creek	Arcadia Creek	11/13/2006-NF 9/23/2010-NF 8/12/2014-NF 6/1/2018-NF	11/13/2006 9/23/2010 8/12/2014 6/1/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream manhole	2018 - Recheck(ed)
373	STOWAKC162032	Arcadia Creek	Arcadia Creek	11/13/2006-NF 9/23/2010-NF 8/12/2014-NF 6/1/2018-NF	11/13/2006 9/23/2010 8/12/2014 6/1/2018	N/A	N/A	N/A	N/A	NF	Sediment, debris in catch basins, manhole and associated piping.	Evaluated at upstream catch basins, manhole	2018 - Recheck(ed)
374	STOWAKC162200	Arcadia Creek	Arcadia Creek	11/13/2006-NF 9/23/2010-NF 8/12/2014-NF 6/1/2018-NF	11/13/2006 9/23/2010 8/12/2014 6/1/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basins, with sediments	2018 - Recheck(ed)
375	STOWAKC162201	Arcadia Creek	Arcadia Creek	11/13/2006-NF 9/23/2010-NF 8/12/2014-NF 6/1/2018-NF	11/13/2006 9/23/2010 8/12/2014 6/1/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream manhole, filled with sediments	2018 - Recheck(ed)
395	STOWAKC151300	Arcadia Creek	Arcadia Creek	10/9/2006-NF 9/15/2010-NF 8/6/2014-NF 7/27/2018-NF	10/9/2006 9/15/2010 8/6/2014 7/27/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream manhole	2018 - Recheck(ed)
396	STOWAKC151298	Arcadia Creek	Arcadia Creek	10/9/2006-NF 9/15/2010-NF 8/6/2014-NF 7/27/2018-NF	10/9/2006 9/15/2010 8/6/2014 7/27/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream manhole	2018 - Recheck(ed)
399	STOWAKC152200	Arcadia Creek	Arcadia Creek	10/9/2006-NF 9/14/2010-NF 8/6/2014-NF 7/27/2018-NF	10/9/2006 9/14/2010 8/6/2014 7/27/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream manhole	2018 - Recheck(ed)
400	STOWAKC152208	Arcadia Creek	Arcadia Creek	10/9/2006-NF 9/14/2010-NF 6/27/2014-NF 9/13/2018-NF	10/9/2006 9/14/2010 6/27/2014 9/13/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream manhole	2018 - Recheck(ed)
401	STOWAKC152205	Arcadia Creek	Arcadia Creek	10/9/2006-NF 9/14/2010-NF 8/16/2018-NF	10/9/2006 9/14/2010 8/16/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream manholes	2018 - Recheck(ed)
402	STOWAKC152202	Arcadia Creek	Arcadia Creek	10/9/2006-NF 8/3/2010-NF 9/9/2014-NF 8/14/2018-NF	10/9/2006 8/3/2010 9/9/2014 8/14/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream manhole	2018 - Recheck(ed)
403	STOWAKC152213	Arcadia Creek	Arcadia Creek	10/9/2006-NF 8/11/2010-NF 8/6/2014-NF 7/27/2018-NF	10/9/2006 8/11/2010 8/6/2014 7/27/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin	2018 - Recheck(ed)
404	STOWAKC152206	Arcadia Creek	Arcadia Creek	10/9/2006-NF 8/11/2010-NF 6/27/2014 8/08/2018-NF	10/9/2006 8/11/2010 6/27/2014 8/08/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin(s)	2018 - Recheck(ed)
405	STOWAKC152203	Arcadia Creek	Arcadia Creek	10/9/2006-NF 8/3/2010-NF 6/27/2014-NF 8/08/2018-NF	10/9/2006 8/3/2010 6/27/2014 8/08/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin(s)	2018 - Recheck(ed)
407	STOWAKC152225	Arcadia Creek	Arcadia Creek	10/6/2006-NF 5/27/2010-NF 7/10/2014-NF 6/21/2018-NF	10/6/2006 5/27/2010 7/10/2014 6/21/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin(s)	2018 - Recheck(ed)

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408	STOWAKC152215	Arcadia Creek	Arcadia Creek	10/6/2006-NF 8/4/2010-NF 8/6/2014-NF 7/17/2018-NF	10/6/2006 8/4/2010 8/6/2014 7/17/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin(s)	2018 - Recheck(ed)
409	STOWAKC152214	Arcadia Creek	Arcadia Creek	10/6/2006-NF 8/4/2010-NF 8/6/2014-NF 7/17/2018-NF	10/6/2006 8/4/2010 8/6/2014 7/17/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream manhole	2018 - Recheck(ed)
410	STOWAKC152226	Arcadia Creek	Arcadia Creek	10/6/2006-NF 8/4/2010-NF 8/6/2014-NF 7/17/2018-NF	10/6/2006 8/4/2010 8/6/2014 7/17/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin(s)	2018 - Recheck(ed)
411	STOWAKC152224	Arcadia Creek	Arcadia Creek	10/6/2006-NF 6/8/2010-NF 7/10/2014-NF 6/21/2018-NF	10/6/2006 6/8/2010 7/10/2014 6/21/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin(s)	2018 - Recheck(ed)
412	STOWAKC152223	Arcadia Creek	Arcadia Creek	10/6/2006-NF 6/8/2010-NF 7/10/2014-NF 6/21/2018-NF	10/6/2006 6/8/2010 7/10/2014 6/21/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin(s)	2018 - Recheck(ed)
413	STOWAKC152222	Arcadia Creek	Arcadia Creek	10/6/2006-NF 6/8/2010-NF 7/10/2014-NF 6/21/2018-NF	10/6/2006 6/8/2010 7/10/2014 6/21/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin(s)	2018 - Recheck(ed)
414	STOWAKC152221	Arcadia Creek	Arcadia Creek	10/6/2006-NF 6/8/2010-NF 7/10/2014-NF 7/17/2018-NF	10/6/2006 6/8/2010 7/10/2014 7/17/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin(s)	2018 - Recheck(ed)
415	STOWAKC152220	Arcadia Creek	Arcadia Creek	10/6/2006-NF 6/8/2010-NF 7/10/2014-NF 6/21/2018-NF	10/6/2006 6/8/2010 7/10/2014 6/21/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin(s)	2018 - Recheck(ed)
438	STOWKC346001	Portage Creek	Portage Creek	10/2003-DFN 9/23/2004-DF 12/2/2009-DF 10/12/2011-DF 9/24/2013-NF 8/25/2014-NF 6/6/2018-NF	10/2004 9/23/2004 12/2/2009 10/12/2011 9/24/2013 8/25/2014 6/6/2018	10/31/2003 12/2/2009 10/12/2011	9/27/2004 12/3/2009 10/13/2011	9/27/2004 12/3/2009 10/13/2011	N/A	NF	2-3 gpm appears to be groundwater, lab flouride = 0.133 mg/L	Diesel fuel odor at upstream manhole 10/12/11 not evident during recheck	2018 - Recheck(ed)
439	STOWKC346002	Portage Creek	Portage Creek	10/2003-DF 9/23/2004-DF 12/2/2009-DF 10/12/2011-DF 8/25/2014-NF 6/6/2018-NF	10/2003 9/23/2004 12/2/2009 10/12/2011 8/25/2014 6/6/2018	10/31/2003 12/2/2009 10/12/2011	9/27/2004 12/3/2009 10/13/2011	9/27/2004 12/3/2009 10/13/2011	2008	NF	7-8 gpm with lab flouride = 0.117mg/L and no negative characteristics	Flow is groundwater	2018 - Recheck(ed)
440	STOWAKC151286	Arcadia Creek	Arcadia Creek	10/16/2006-NF 9/21/2010-NF 7/16/2014-NF 8/08/2018-NF	10/16/2006 9/21/2010 7/16/2014 8/08/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream manhole	2018 - Recheck(ed)
441	STOWKC15707	Arcadia Creek	Arcadia Creek	10/16/2006-NF 9/21/2010-NF 8/6/2014-NF 7/27/2018-NF	10/16/2006 9/21/2010 8/6/2014 7/27/2018	N/A	N/A	N/A	N/A	NF			2018 - Recheck(ed)
443	STOWAKC151290	Arcadia Creek	Arcadia Creek	10/16/2006-NF 9/21/2010-NF 7/16/2014-NF 8/08/2018-NF	10/16/2006 9/21/2010 7/16/2014 8/08/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin	2018 - Recheck(ed)
444	STOWAKC151288	Arcadia Creek	Arcadia Creek	10/16/2006-NF 9/21/2010-NF 7/16/2014-NF 8/08/2018-NF	10/16/2006 9/21/2010 7/16/2014 8/08/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream manhole	2018 - Recheck(ed)
447	STOWKC15906	Arcadia Creek	Arcadia Creek	10/10/2006-NF 8/3/2010-NF 6/27/2014-NF 8/08/2018-NF	10/10/2006 8/3/2010 6/27/2014 8/08/2018	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin	2018 - Recheck(ed)
167	STOWKC28301	Axtell Creek	Axtell Creek	6/17/2003-NF 7/12/2004-NF 5/15/2008-NF	6/17/2003 7/12/2004 5/15/2008	N/A	N/A	N/A	N/A	NF	Submerged outfall was bulkheaded directly upstream.	Upstream structures reconfigured during 2007 reconstruction of intersection at Howard & Crosstown Pky.	Abandoned - See File

1		River/Creek Sub Basin	Specific Water Body Terminus	Historical Inspection Dates/Codes	Field Observation Form Complete	Water Quality Analysis Form Complete	Field Investigation Form Complete	Source Investigation Form Complete	Facility Inspections Complete	Most Recent Code	Condition	Notes	Next Proposed Action
65	STOWKC341012	Portage Creek	Portage Creek	7/16/2003-DF 10/4/2004-DF 6/29/2007-DF 6/20/2008-DF	7/16/2003 10/4/2004 6/29/2007 6/20/2008	10/20/2003 6/20/2008	N/A	N/A	Sep-07	FSC	Measurable 15 gpm, lab flouride = 0.08 ppm, appears to be groundwater		City of Portage
66	STOWKC342000	Portage Creek	Portage Creek	7/16/2003-CNL 11/2/2004-CNL	7/16/2003 11/2/2004	N/A	N/A	N/A	N/A	FSC	Only one catch basin associated with outfall appears to be filled with dirt	Dye testing proved inconclusive due to blockage in catch basin	City of Portage
67	STOWAKC342502	Portage Creek	Portage Creek	7/16/2003-CNL 11/2/2004-CNL	7/16/2003 11/2/2004	N/A	N/A	N/A	N/A	FSC	Only one catch basin associated with outfall appears to be filled with dirt	Dye testing proved inconclusive due to blockage in catch basin	City of Portage
291	STOWAKC342500	West Fork Portage Creek	West Fork Portage Creek	12/8/2004-TC 5/31/2005-DF/TC 6/12/2007-DF	12/14/2004 6/13/2007	6/2/2005 6/13/2007	6/19/2007	6/19/2007	2009	FSC	2-3 gpm from Theo & Stacy's Restaurant	Lab flouride result = 1.03 mg/l	City of Portage
12	STOGKP022000	Mainstem 3	Kalamazoo River	9/19/2006-NF	9/19/2006	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin(s)	City of Portage
60	STOWPC032001	Portage Creek	Portage Creek	7/16/2003-NF 10/13/2004-NF 5/21/2008-NF	7/16/2003 10/13/2004 5/21/2008	N/A	N/A	N/A	N/A	NF			City of Portage
61	STOWPC032002	Portage Creek	Portage Creek	7/16/2003-NF 10/13/2004-NF 5/21/2008-NF	7/16/2003 10/13/2004 5/21/2008	N/A	N/A	N/A	N/A	NF			City of Portage
292	STOWAKC342501	West Fork Portage Creek	West Fork Portage Creek	12/8/2004-NF 8/12/2008-NF	12/8/2004 8/12/2008	N/A	N/A	N/A	N/A	NF	Evaluated at upstream catch basins, outfall under roadway		City of Portage
185	STOGPC035	Portage Creek	Portage Creek	5/18/2005-NF 6/29/2009-NF	5/18/2005 6/29/2009	N/A	N/A	N/A	N/A	NF		Eliminated during road construction	Deleted
186	STOGPC033	Portage Creek	Portage Creek	5/18/2005-NF 6/29/2009-NF	5/18/2005 6/29/2009	N/A	N/A	N/A	N/A	NF		Eliminated during road construction	Deleted
276	STOGKP021000 (STOGKC021000)	Kalamazoo River/Mainstem 3	Davis Creek	4/1/2005-NF 7/17/2009-NF 8/21/2013-NF	4/1/2005 7/17/2009 8/21/2013	N/A	N/A	N/A	N/A	NF	Evaluated at upstream catch basin	Piping redirected to STOGKP021004	Deleted
420	STOWKC15838	Arcadia Creek To Portage Creek	Kalamazoo River	10/6/2006-NF	10/9/2006	N/A	N/A	N/A	N/A	NF		Arcadia Creek Outfall to Portage Creek at Kalamazoo River	Deleted
226	STOGKC195008	Arcadia Creek		4/25/2005-NF 5/26/2009-CNL	4/25/2005 5/26/2009	Outfall Eliminated	Outfall Eliminated	Outfall Eliminated	Outfall Eliminated	Outfall Eliminated	Outfall and associated piping have been removed	Outfall No Longer Exists	Deleted
95	STOGKC236004	Mainstem 3	Kalamazoo River	6/6/2005-NF 6/10/2009-NF	6/6/2005 6/10/2009	Deleted	Deleted	Deleted	Deleted	Deleted		Converted to private outfall 9/09	Deleted
243	STOWKC201011	Arcadia Creek		4/21/2005-NF	4/21/2005	Deleted	Deleted	Deleted	Deleted	Deleted		Storm sewer owned by WMU	Deleted
2	STOGKC28846	Deleted	Deleted	Deleted	Deleted	Deleted	Deleted	Deleted	Deleted		Outfall abandoned	Deleted, no piping associated with this outfall any longer.	Deleted
3	STOWKC15912	Deleted	Deleted	Deleted	Deleted	Deleted	Deleted	Deleted	Deleted		Private Property	Deleted, no longer exists	Deleted
4	STOWKC15914	Deleted	Deleted	Deleted	Deleted	Deleted	Deleted	Deleted	Deleted		Private Property	Deleted, no longer exists	Deleted
5	STOWKC15910	Deleted	Deleted	Deleted	Deleted	Deleted	Deleted	Deleted	Deleted		Private Property	Deleted, no longer exists	Deleted
450	Private Outfall?	Portage Creek	Portage Creek	7/17/2003	7/17/2003	Deleted							Deleted
451	STOWKC34344	Deleted										Deleted, structure changed to "culvert-out".	Deleted
449	STOWKC215013	Arcadia Creek	Arcadia Creek	11/29/2006	11/29/2006	Outfall Never Created During Construction	Outfall Never Created During Construction	Outfall Never Created During Construction	Outfall Never Created During Construction	Outfall Never Created During Construction		During road reconstruction, outfall was not created.	Does Not Exist
131	STOWKC147	Mainstem 3	Kalamazoo River	6/22/2005-CNL/NF 7/13/2009-DF	6/22/2005 7/13/2009	N/A	N/A	N/A	N/A	FSC	Schippers Lane Drain		Kal. County Outfall - See File
183	STOGKC366020	Kalamazoo River/Mainstem 3	Davis Creek	5/3/2005-DF/TC 6/7/2007-DF	5/3/2005	5/3/2005	6/21/2007	6/21/2007	N/A	FSC	3-15 gpm is groundwater from Kal. County Rd. Commission property	Lab result for flouride is 0.123 mg/l.	KCRC
70	STOGKC102103	Mainstem 3	Kalamazoo River	7/14/2005-NF 6/4/2009-NF	7/14/2005 6/4/2009	N/A	N/A	N/A	N/A	NF			KCRC
72	STOGKC102101	Mainstem 3	Kalamazoo River	7/13/2005-NF 6/4/2009-NF	7/13/2005 6/4/2009	N/A	N/A	N/A	N/A	NF			KCRC
176	STOGCT305	Kalamazoo River/Mainstem 3	Davis Creek	5/6/2005-NF 5/26/2009-NF	5/6/2005 5/26/2009	N/A	N/A	N/A	N/A	NF			KCRC

1		River/Creek Sub Basin	Specific Water Body Terminus	Historical Inspection Dates/Codes	Field Observation Form Complete	Water Quality Analysis Form Complete	Field Investigation Form Complete	Source Investigation Form Complete	Facility Inspections Complete	Most Recent Code	Condition	Notes	Next Proposed Action
177	STOGCT3013	Kalamazoo River/Mainstem 3	Davis Creek	5/6/2005-NF 5/26/2009-NF	5/6/2005 5/26/2009	N/A	N/A	N/A	N/A	NF	Partially submerged		KCRC
181	STOGKC252001	Kalamazoo River/Mainstem 3	Davis Creek	5/6/2005-CNL 5/12/2005-NF 6/10/2009-NF	5/6/2005 6/10/2009	N/A	N/A	N/A	N/A	NF	2009 - Pipe buried, excessive vegetation	Pipe corroded and filled with dirt	KCRC
182	STOGKC252002	Kalamazoo River/Mainstem 3	Davis Creek	5/6/2005-CNL 5/12/2005-NF 6/10/2009-NF	5/6/2005 6/10/2009	N/A	N/A	N/A	N/A	NF	2009 - Pipe buried, excessive vegetation	Pipe collapsed, some sediment	KCRC
198	STOGCT312002	Kalamazoo River/Mainstem 3	Davis Creek	5/12/2005-NF 5/20/2009-NF	5/12/2005 5/20/2009	N/A	N/A	N/A	N/A	NF		Heavy sediment	KCRC
199	STOGCT3114	Kalamazoo River/Mainstem 3	Davis Creek	5/12/2005-NF 5/20/2009-NF	5/12/2005 5/20/2009	N/A	N/A	N/A	N/A	NF			KCRC
345	STOGKC362003	Kalamazoo River/Mainstem 3		11/23/2004-NF 7/22/2008-NF	11/23/2004 7/22/2008	N/A	N/A	N/A	N/A	NF			KCRC
394	STOGKC316014	West Fork Portage Creek		11/10/2004-NF 8/28/2008-NF	11/10/2004 8/28/2008	N/A	N/A	N/A	N/A	NF			KCRC
452	STOGKC101306	Mainstem 3	Kalamazoo River										KCRC
453	STOGKC101307	Mainstem 3	Kalamazoo River										KCRC
26	STOWKC152001	Portage Creek	Portage Creek	8/11/2003-DF 10/13/2004-TC	8/11/2003 10/13/2004	10/24/03	N/A	N/A	N/A	FSC	1-3 gpm	Fuel oil odor	MDOT Outfall
172	STOWKC221445	Axtell Creek	Crosstown Ponds	6/17/2003-DF 8/13/2004-DF 5/9/2008-DF	6/17/2003 8/13/2004 5/9/2008	10/1/2003 11/1/2004	8/13/2004	8/13/2004	Weiss Medical Building - 9/20/2005	FSC	Outfall submerged, 20 gpm flow evaluated upstream	Flow at two of six storm grates upstream is from basement dewatering	MDOT Outfall
256	STOGKC296012	Arcadia Creek		4/13/2005-NF/CNL	4/13/2005	N/A	N/A	N/A	N/A	FSC	Evaluated at upstream catch basin	Outfall is buried. Could not locate.	MDOT Outfall
260	STOGKC296013	Arcadia Creek		4/13/2005-NF	4/13/2005	N/A	N/A	N/A	N/A	FSC	Outfall partially filled with dirt and partially buried.		MDOT Outfall
261	STOGKC29552	Arcadia Creek		4/13/2005-NF	4/13/2005	N/A	N/A	N/A	N/A	FSC	Outfall partially filled with dirt and partially buried.		MDOT Outfall
262	STOGKC29550	Arcadia Creek		4/13/2005-NF	4/13/2005	N/A	N/A	N/A	N/A	FSC	Outfall partially filled with dirt and partially buried.		MDOT Outfall
263	STOGKC29548	Arcadia Creek		4/13/2005-NF	4/13/2005	N/A	N/A	N/A	N/A	FSC	Outfall partially filled with dirt and partially buried.		MDOT Outfall
264	STOGKC29546	Arcadia Creek		4/13/2005-NF	4/13/2005	N/A	N/A	N/A	N/A	FSC	Outfall partially filled with dirt and partially buried.		MDOT Outfall
265	STOGKC29544	Arcadia Creek		4/13/2005-NF	4/13/2005	N/A	N/A	N/A	N/A	FSC	Outfall partially filled with dirt and partially buried.		MDOT Outfall
17	STOWAKC222501	Axtell Creek	Axtell Creek	8/21/2003-TC 10/21/2004-NF 7/14/2008-NF	8/21/2003 10/21/2004 7/14/2008	N/A	N/A	N/A	N/A	NF	Under bridge	Evaluated at upstream manholes	MDOT Outfall
18	STOWKC221409	Axtell Creek	Axtell Creek	8/21/2003-NF 7/12/2004-NF 7/14/2008-NF	8/21/2003 7/12/2004 7/14/2008	N/A	N/A	N/A	N/A	NF			MDOT Outfall
23	STOWKC152000	Portage Creek	Portage Creek	8/11/2003-NF 10/13/2004-NF 7/14/2008-NF	8/11/2003 10/13/2004 7/14/2008	N/A	N/A	N/A	N/A	NF			MDOT Outfall
24	STOWKC151132	Portage Creek	Portage Creek	8/11/2003-NF 10/13/2004-NF 7/14/2008-NF	8/11/2003 10/13/2004 7/14/2008	N/A	N/A	N/A	N/A	NF			MDOT Outfall
25	STOWKC151124	Portage Creek	Portage Creek	8/11/2003-NF 10/13/2004-NF 7/14/2008-NF	8/11/2003 10/13/2004 7/14/2008	N/A	N/A	N/A	N/A	NF			MDOT Outfall
93	STOGKC232020 (STOGKT232020)	Mainstem 3	Kalamazoo River	6/6/2005-NF 6/10/2009-NF	6/6/2005 6/10/2009	N/A	N/A	N/A	N/A	NF			MDOT Outfall
94	STOGKC232024 (STOGKT232024)	Mainstem 3	Kalamazoo River	6/6/2005-NF 6/10/2009-NF	6/6/2005 6/10/2009	N/A	N/A	N/A	N/A	NF			MDOT Outfall
127	STOWKC146	Mainstem 3	Kalamazoo River	6/22/2005-NF 8/6/2009-NF	6/22/2005 8/6/2009	N/A	N/A	N/A	N/A	NF			MDOT Outfall
128	STOWKC146513	Mainstem 3	Kalamazoo River	6/22/2005-NF 8/6/2009-NF	6/22/2005 8/6/2009	N/A	N/A	N/A	N/A	NF			MDOT Outfall
138	STOGKC12528	Mainstem 3	Kalamazoo River	6/21/2005-CNL/NF 7/24/2009-NF	6/21/2005 7/24/2009	N/A	N/A	N/A	N/A	NF			MDOT Outfall

1		River/Creek Sub Basin	Specific Water Body Terminus	Historical Inspection Dates/Codes	Field Observation Form Complete	Water Quality Analysis Form Complete	Field Investigation Form Complete	Source Investigation Form Complete	Facility Inspections Complete	Most Recent Code	Condition	Notes	Next Proposed Action
147	STOWAKC212201	Axtell Creek	Axtell Creek	6/18/2003-TC 7/12/2004-NF 7/10/2008-NF	6/18/2003 7/12/2004 7/10/2008	N/A	N/A	N/A	N/A	NF	Under bridge	Evaluated at upstream manholes	MDOT Outfall
148	STOWAKC212202	Axtell Creek	Axtell Creek	6/18/2003-TC 10/21/2004-NF 12/2/2009-NF	6/18/2003 10/21/2004 12/2/2009	N/A	N/A	N/A	N/A	NF	Under bridge	Evaluated at upstream manholes	MDOT Outfall
149	STOWAKC212200	Axtell Creek	Axtell Creek	6/18/2003-TC 10/21/2004-DF 6/11/2007-NF 6/18/2007-NF 6/25/2007-NF	6/18/2003 10/21/2004	10/22/2004	10/22/2004	10/22/2004	N/A	NF	Outfall is under bridge. Evaluated at upstream manhole.		MDOT Outfall
223	STOGKC30158	Arcadia Creek		4/25/2005-NF 6/18/2009-NF	4/25/2005 6/18/2009	N/A	N/A	N/A	N/A	NF			MDOT Outfall
224	STOGKC29367	Arcadia Creek		4/25/2005-NF 6/16/2009-NF	4/25/2005 6/16/2009	N/A	N/A	N/A	N/A	NF			MDOT Outfall
225	STOGKC29366	Arcadia Creek		4/25/2005-NF 6/16/2009-NF	4/25/2005 6/16/2009	N/A	N/A	N/A	N/A	NF			MDOT Outfall
258	STOGKC296010	Arcadia Creek		4/13/2005-NF 6/16/2009-NF	4/13/2005 6/16/2009	N/A	N/A	N/A	N/A	NF			MDOT Outfall
259	STOGKC296011	Arcadia Creek		4/13/2005-NF 6/16/2009-NF	4/13/2005 6/16/2009	N/A	N/A	N/A	N/A	NF			MDOT Outfall
267	STOWKC30159	Arcadia Creek		4/12/2005-NF 10/14/2009-NF	4/12/2005 10/14/2009	N/A	N/A	N/A	N/A	NF			MDOT Outfall
335	STOWAKC215002	Arcadia Creek	Arcadia Creek	11/28/2006-NF	11/28/2006	N/A	N/A	N/A	N/A	NF			MDOT Outfall
336	STOWAKC215007	Arcadia Creek	Arcadia Creek	11/28/2006-NF	11/28/2006	N/A	N/A	N/A	N/A	NF			MDOT Outfall
337	STOWAKC215001	Arcadia Creek	Arcadia Creek	11/28/2006-NF	11/28/2006	N/A	N/A	N/A	N/A	NF			MDOT Outfall
338	STOWAKC215000	Arcadia Creek	Arcadia Creek	11/28/2006-NF	11/28/2006	N/A	N/A	N/A	N/A	NF			MDOT Outfall
339	STOWAKC215006	Arcadia Creek	Arcadia Creek	11/28/2006-NF	11/28/2006	N/A	N/A	N/A	N/A	NF			MDOT Outfall
341	STOWAKC215008	Arcadia Creek	Arcadia Creek	11/27/2006-NF	11/27/2006	N/A	N/A	N/A	N/A	NF			MDOT Outfall
346	STOWAKC215003	Arcadia Creek	Arcadia Creek	11/22/2006-NF 9/30/2010-NF	11/22/2006 9/30/2010	N/A	N/A	N/A	N/A	NF			MDOT Outfall
347	STOWAKC215010	Arcadia Creek	Arcadia Creek	11/22/2006-NF	11/22/2006	N/A	N/A	N/A	N/A	NF			MDOT Outfall
348	STOWAKC215005	Arcadia Creek	Arcadia Creek	11/22/2006-NF	11/22/2006	N/A	N/A	N/A	N/A	NF			MDOT Outfall
354	STOWKC16906	Arcadia Creek	Arcadia Creek	11/21/2006-NF	11/21/2006	N/A	N/A	N/A	Oct-10	NF			MDOT Outfall
355	STOWKC16661	Arcadia Creek	Arcadia Creek	11/21/2006-NF	11/21/2006	N/A	N/A	N/A	N/A	NF			MDOT Outfall
376	STOWAKC162033	Arcadia Creek	Arcadia Creek	11/13/2006-NF	11/13/2006	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basins	MDOT Outfall
416	STOWAKC152209	Arcadia Creek	Arcadia Creek	10/6/2006-NF	10/6/2006	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin(s)	MDOT Outfall
417	STOWAKC152211	Arcadia Creek	Arcadia Creek	10/6/2006-NF	10/6/2006	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin(s)	MDOT Outfall
418	STOWAKC152210	Arcadia Creek	Arcadia Creek	10/6/2006-NF	10/6/2006	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin(s)	MDOT Outfall
419	STOWAKC152212	Arcadia Creek	Arcadia Creek	10/6/2006-NF	10/6/2006	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basin(s)	MDOT Outfall
422	STOWAKC162300	Arcadia Creek	Arcadia Creek	10/30/2006-NF	10/30/2006	N/A	N/A	N/A	N/A	NF		Evaluated at upstream catch basins	MDOT Outfall
423	STOWAKC162227	Arcadia Creek	Arcadia Creek	10/30/2006-NF	10/30/2006	N/A	N/A	N/A	N/A	NF		Evaluated at upstream manhole	MDOT Outfall
445	STOWAKC151272	Arcadia Creek	Arcadia Creek	10/16/2006-NF 9/21/2010-NF	10/16/2006 9/21/2010	N/A	N/A	N/A	N/A	NF		Evaluated at upstream manhole	MDOT Outfall
446	STOWAKC151268	Arcadia Creek	Arcadia Creek	10/16/2006-NF	10/16/2006	N/A	N/A	N/A	N/A	NF			MDOT Outfall
#	STOWKC152041	Mainstem 3	Kalamazoo River										MDOT Outfall
282	STOGKC3096	West Fork Portage Creek		3/29/2005-NF 6/26/2009-NF	3/29/2005 6/26/2009	N/A	N/A	N/A	N/A	NF			MDOT Structure
283	STOGKC3094	West Fork Portage Creek		3/29/2005-NF 6/26/2009-NF	3/29/2005 6/26/2009	N/A	N/A	N/A	N/A	NF			MDOT Structure
284	STOGKC30109	West Fork Portage Creek		3/29/2005-NF 6/18/2009-NF	3/29/2005 6/18/2009	N/A	N/A	N/A	N/A	NF			MDOT Structure
421	STOWKC151119	Arcadia Creek	Kalamazoo River	10/6/2006-DF	10/9/2006	N/A	N/A	N/A	N/A	FSC	70+ gpm	Arcadia Creek Outfall to Kalamazoo River	No Action Required
235	STOWKC20169	Arcadia Creek		4/21/2005-NF 7/23/2009-DF	4/21/2005 7/23/2009	Outfall Eliminated	Outfall Eliminated	Outfall Eliminated	Outfall Eliminated	Outfall Eliminated		Campus Court at Knollwood	Outfall eliminated
237	STOGKC297002	Arcadia Creek		4/21/2005-NF 6/16/2009-NF	4/21/2005 6/16/2009	Outfall Eliminated	Outfall Eliminated	Outfall Eliminated	Outfall Eliminated	Outfall Eliminated		Campus Court at Knollwood	Outfall eliminated
246	STOGKC297004	Arcadia Creek		4/21/2005 NF/CNL 6/16/2009-CNL	4/21/2005 6/16/2009	Outfall Eliminated	Outfall Eliminated	Outfall Eliminated	Outfall Eliminated	Outfall Eliminated		Campus Court at Knollwood	Outfall eliminated
236	STOWKC191011	Arcadia Creek		4/21/2005-NF 7/22/2009-NF	4/21/2005 7/22/2009	N/A	N/A	N/A	N/A	NF			Private Detention Basin Overflow

1		River/Creek Sub Basin	Specific Water Body Terminus	Historical Inspection Dates/Codes	Field Observation Form Complete	Water Quality Analysis Form Complete	Field Investigation Form Complete	Source Investigation Form Complete	Facility Inspections Complete	Most Recent Code	Condition	Notes	Next Proposed Action
32	STOGKC34334	Portage Creek	Portage Creek	7/22/2003-NF 9/22/2004-NF 5/30/2008-NF	7/22/2003 9/22/2004 5/30/2008	N/A	N/A	N/A	N/A	NF			Private Outfall
33	STOGKC34338	Portage Creek	Portage Creek	7/22/2003-NF 9/22/2004-NF 5/30/2008-NF	7/22/2003 9/22/2004 5/30/2008	N/A	N/A	N/A	N/A	NF			Private Outfall
248	STOWKC195012	Arcadia Creek		4/19/2005-NF 7/23/2009-NF	4/19/2005 7/23/2009	N/A	N/A	N/A	N/A	NF	Evaluated at upstream catch basin	Submerged & surrounded by heavy vegetation	Private Outfall
69	STOGKC102102	Mainstem 3	Kalamazoo River	7/14/2005-NF 6/4/2009-NF	7/14/2005 6/4/2009	N/A	N/A	N/A	N/A	NF			Removed
73	STOGKC102104	Mainstem 3	Kalamazoo River	7/13/2005-NF 6/4/2009-NF	7/13/2005 6/4/2009	N/A	N/A	N/A	N/A	NF			Removed

NF - Dry, No Flow
FSC - Flow and Flow Source Determination Complete
FSI - Flow and Flow Determination Incomplete

CNL - Could Not Locate
DF - Dry Weather Flow, No Negative Signs

Priority Area

EAN - Enforcement Action Needed
EAO - Enforcement Action Ongoing



TABLE 5: City of Kalamazoo Retention/Detention Basins

Location	Approximate Year Constructed	Outfall ID's	Approximate Size	Comments	Inspection & Maintenance
Benton Ave. , between Laird and Kent	1977	STOWKC3274 STOWKC3275	39,000 sq. ft.		Inspected 6/5/2019, Outfall Good, needs tree removed from fence
Wood St. (3400 Block)	1992	STOWKC32448	9,000 sq. ft.		Inspected 6/5/2019, Outfall Good, needs brush & fence O&M trimming
Kendall & Solon St. (SW corner)	1961	STOGKC20396	43,000 sq. ft.	Overflow structure to area east of Kendall	Inspected 6/11/2019, Good Condition
Stone St. & W. Michigan Ave. (south of intersection)	2005	STOGKC215011 STOGKC215012	7,000 sq. ft.		Inspected 6/7/2019, Good Condition
Between W. Michigan & Stadium Dr. (4000 Block - behind trailer park)	1977	STOWKC19372 STOWKC19371 STOWKC19376 STOWKC192001	500,000 sq. ft.	Discharge flow control structure to Arcadia Creek	Inspected 6/7/2019, Good Condition, manhole needs cover
Cumberland St. & Grand Prairie Ave.	1980	STOGKC078 STOWKC0712	33,000 sq. ft.		Inspected 6/6/2019, Outfall Good Condition, brush needs trimming
E. of Sage St. & S. of Turwill Ln.	1978	STOWKT18259 STOWKT18258 STOWKT181019	172,000 sq. ft.		Inspected 6/6/2019, Debris, Outfall needs cleaning
2716 S. Burdick St.	1960"s ?	STOGKC271030	5,000 sq. ft.	Landlocked	Inspection 8/23/2016, Good Condition, Fence needs repair

Note: All stormwater basins will be inspected on an annual basis with maintenance performed as necessary and as resources allow.



**Table 6 - CITY OF KALAMAZOO MUNICIPAL OPERATIONS
STORMWATER PRETREATMENT SITES (Revised 2021)**

Map Unit	Project Address/ Location	Project Description	Stormwater Treatment BMP/Device	Number of Devices	Responsible Party	Year Installed	Inspection Schedule	Inspection and Maintenance
1	415 E. Stockbridge Ave.	BMP to address stormwater quality and control. Public Service's Stockbridge Facility	Aqua Swirl AS-4	1	Public Services (separate SWPPP)	2003	Annual	Inspected summer 2018 and September 2019; Good Condition, No Maintenance required
2	150 E. Crosstown Parkway	Conversion of existing commercial building to new Public Safety Headquarters	Stormceptor	2	Public Safety (general SWPPI)	2003	Annual	Inspected 4/21/2020: Fair Condition, some oily sheen & some chemicals? on 1 unit - unit could use vactoring.
3	Parkview Ave. - Darro St. to 1/2 mile west	Road Reconstruction Project	Stormceptor	11	Public Services	2002	Annual	Inspected 4/16/2020; Most in Good Condition, 5 may require Maintenance as possible
5	1415 N. Harrison St.	New Road Construction at Water Reclamation Plant	Stormceptor	1	Public Services (separate SWPPP)	2003	Annual	Inspected 2019; Good Condition.
6	251 Mills St.	Construction of new City Park's Department Office Building	Aqua Swirl AS-2	1	Parks & Recreation (separate SWPPP)	2004	Annual	Inspected Spring 2019; Good Condition, No Maintenance required
7	Woods Lake - SW shore area	Natural Treatment System at outfall to lake from an approximate 138 acre drainage area	Treatment Train	numerous	Public Services (general SWPPI)	2003	Annual	Inspected May 2020; Fair to Good Condition.
8	459 N. Burdick St.	City of Kalamazoo Metro Transit, Transportation Center	Vortechics 200	2	Metro Transit (separate SWPPP)	2006	Annual	Inspected 2018; Good Condition.
9	Water St. & Edwards St. at Kalamazoo Ave.	Arcadia Festival Site	Aqua Swirl AS-2 & Vegetative	2 - AS-2's	DKI (general SWPPI)	2004	Annual	Inspected 2018; Good Condition.
10	530 N. Rose St.	City of Kalamazoo Metro Transit Headquarters	Aqua Swirl AS-2	2	Metro Transit (separate SWPPP)	2005	Annual	Inspected 2018; Good Condition.
11	601 N. Park St.	Public Safety Station	HydroKleen, "Catch-All" catch basin filter inserts	6	Public Safety (general SWPPI)	2007	Annual	Inspected 4/21/2020: Fair Condition, leaves & mulch accumulating on top of each unit; regular maintenance needed to keep units at least somewhat what free of accumulating leaves & mulch.
12	Kendall St. & Howard St. (east roundabout)	City of Kalamazoo Public Services, Arboretum Parkway connector & roundabouts	Contech CDS separator	1	Public Safety (general SWPPI)	2010	Annual	Inspected 2018; Good Condition.
13	128 VanderSalm Court	City of Kalamazoo Public Services, STIOKC221323 Vandervalk 2011 storm relief station	two 50 gym pumps & Aqua-Swirl	1	Public Services (Chris Nelson, KWRP)	2011	Annual	Inspected 2020; Good Condition
14	500 Collins Road	Kalamazoo Farmers Market	Aqua Swirl AS-6	1	Public Services	NA	Annual	Scheduled for 2021
15	1203 Bryant St.	Public Safety Station #2	Non-Descript Catch Basin	1	Public Safety	NA	Annual	Inspected 2020; Good Condition
16	901 Davis St.	Davis Street Park	Rain Garden	1	Parks & Recreation (separate SWPPP)	2017	Annual	Scheduled for 2021

Stormwater IDEP Enforcement Tracking Table

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Name of Business:						
Address:						
Property Owner Name:						
Receiving Stream:						
Outfall:						
Date of Action:						
Type of Action:						
Comments:						
Staff Name:						
Initial Situation Assessment						
Indicate with "✓" →						
	Level 3. Higher level of determined or reasonable potential severity relative to impact on water quality – Initial assessment within 48 hours.	Level 2. Medium level of determined or reasonable potential severity relative to impact on water quality – Initial assessment within 30 days.	Level 1. Lower level of determined or reasonable potential severity relative to impact on water quality - Initial assessment within 60 days.	Level 0. No level of reasonable potential severity relative to impact on water quality - no field assessment deemed necessary.		
Date:						
Comments:						
Ordinance Related Response						
Indicate with "✓" →						
	Step 1. Verbal Notice of Violation by Department of Public Services within 90 days of initial assessment determination for lower severity risk.	Step 2. First Written Notice of Violation by Public Services within 60 days of non-compliance of Verbal Notice or otherwise warranted from Assessment.	Step 3. Second Written Notice of Violation within 14 days of determination of non-compliance of directives in first Written Notice.	Step 4. City site abatement or/other legal response after non-compliance of directives in second Written Notice or warranted from Assessment.		
Date:						
Comments:						

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Site Plan Review - Wellhead Protection and Stormwater Compliance Checklist			
Site Name:			
Site Address:			
Wellhead Protection	Answer		Comments
Is the site within a Wellhead Protection Area (WHPA)?			
If yes, 1-year, 5-year, or 10-year Capture Zone?			
If yes, which Water Pumping Station(s)?			
Zoning Type?			
See Performance Standards, Section 5.3 Table 4 for stormwater discharge strategies in WHPAs.			
Proposed Stormwater Discharge Strategy - surface water, groundwater, combination?			
In groundwater infiltration with a WHPA, is pre-treatment required?			
Are there Hazardous Substances currently or proposed to be stored on the property?			
If yes, review Performance Standards for requirements.			
Are there any existing out-of service wells, abandoned wells, or cisterns on the property?			
Does the property have any known or suspected soil and/or groundwater contamination?			
Is the property on any State or Federal lists associated with contamination?			
Is the property currently or being proposed to be a Brownfield?			
Is the property currently or being proposed to be an NFP site?			
If stormwater infiltration is being proposed on a site with known soil and/or groundwater contamination, EGLE RRD Staff (Erica Bays for Part 201 at 269-350-0080 or BaysE@michigan.gov, or Nate Whitmyer for Part 213 at 269-615-4060 or WhitmyerN@michigan.gov) must be contacted to discuss and to obtain approval.			
Does the property have any underground or above-ground storage tanks?			
Distribute Required Chemical Storage Inventory Information			
	Indicate Completion (✓)	Indicate Review/Compliance (✓)	
Stormwater	Site Size:		
	Category	Acres/ft ²	Comments
Size of Development/Re-Development?			
Small Site ≤ 1/2 acre (21,780 ft ²)			
Medium Site ≥ 1/2 (21,780 ft ²) acre to 1 acre (43,560 ft ²)			
Large Site ≥ 1 acre (43,560 ft ²)			
See Performance Standards, Section 5.2, Table 3 for applicable Standards			
	Indicate Completion (✓)	Indicate Review/Compliance (✓)	
If project is a Medium or Large Size, applicant is required to complete:			
Uniform Stormwater Standard 1: Water Quality Treatment Volume Worksheet			
Manufactured Treatment Device Worksheet, if device is proposed to be used as pre-treatment strategy. (All Stormwater Manufactured Treatment Devices must be NJCAT verified and NJDEP Certified)			
Uniform Stormwater Standard 2: Channel Protection Volume Worksheet			
Requirement for Stormwater Operations and Maintenance Agreement			
Does the proposed project result in ≥ 20 new parking spaces and/or exceed 6,000 ft ² area?			
If there is a surface water feature on or contiguous to the property, see buffer requirements in the Performance Standards, Section 5.2, Table 3.			