ermittee: CAPITAL REC	G WATER NPDES Permit No.: PAI133524		
Facility Name:	MS4 CITY OF HARRISBURG	MS4 Contact:	CLAIRE MAULHARDT
Facility Address:	Facility Address:	Title:	PROGRAM MANAGER
Facility ID:	661965	Phone: "	717-216-5269
County:	Dauphin	Email:	claire.maulhardt@capitalregionwater.c
Municipality:	Harrisburg City		
Effective Date:	08/01/2020		
Expiration Date:	07/31/2025		
Renewal Due Date:	08/01/2025		

MS4 Report (Current Version)

Appendix Selection						
You must review each	appendix and select t	he appropriate append	ices below.			
Appendix A	Appendix B	Appendix C	Appendix D	Appendix E	Appendix F	

Water Quality Information Module	⊘				^
Are there any discharges to waters within	the Chesapeal	ke Bay Watersh	ned? Yes		
Identify all surface waters that receive stor	rmwater discha	arges from the	permittee's MS4 and provide the requested	d information.	
Receiving Water Name	Ch. 93 Class	Impaired	Cause(s)	TMDL	WLA
Susquehanna River	WWF	Yes	Pathogens, pH	No	Νο
Paxton Creek	WWF	Yes	DO/BOD, Other Habitat Alterations, Pathogens, Suspended Solids	Yes	Yes
Spring Creek	CWF	Yes	Other Habitat Alterations, Siltation, Water/Flow Variability	No	Νο
UNT to Spring Creek	CWF	Yes	Other Habitat Alterations, Siltation, Water/Flow Variability	No	Νο
Asylum Run	WWF	Yes	Pathogens, Siltation	Yes	Yes
Wildwood Lake	WWF	Yes	Siltation	Yes	Yes
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General Minimum Control Measure (MCM) Information Module

Have you completed all MCM activities required by the permit for this reporting period? Yes

List the current entity responsible for imp	olementing each MCM of your	SWMP, along with contact names	and phone numbers.
МСМ	Entity Responsible	Contact Name	Phone Number
#1 Public Education and Outreach on Stormwater Impacts	CRW	Tanya Dierolf	717-216-5259
#2 Public Involvement / Participation	CRW	Tanya Dierolf	717-216-5259
#3 Illicit Discharge Detection and Elimination (IDD&E)	CRW	Michael Joseph	717-216-5259
#4 Construction Site Stormwater Runoff Control	DCCD/CRW	Claire Maulhardt	717-216-5259
#5 Post-Construction Stormwater Management in New Development and Redevelopment	DCCD/CRW	Claire Maulhardt	717-216-5259
#6 Pollution Prevention / Good Housekeeping	CRW	Claire Maulhardt	717-216-5259
MCM #1 – Public Education & Outrea	ch on Stormwater Impact	s Module 🛛 😪	^
BMP #1: Develop, implement and maint	ain a written Public Educatio	on and Outreach Program	
For new permittees only, has the writter f permit coverage?	PEOP been developed and in	nplemented within the first year	Yes
2. Date of latest annual review of PEOP:	07/10/2024	Were updates made	e? No
3. What were the plans and goals for publ	ic education and outreach for	the reporting period?	
Continue implementation of the PEO prevention and positive action, as we	-	nity outreach, specifically litter cle	eanups as a forum for pollution
i. Did the MS4 achieve its goal(s) for the F	EOP during the reporting per	iod?	Yes
i. Identify specific plans and goals for pub	lic education and outreach for	the upcoming year:	
Continued implementation of the PE stormwater week.	OP with emphasis on websit	e enhancements, community eve	nts, and a coordinated
BMP #2: Develop and maintain lists of t	arget audience groups prese	nt within the areas served by you	ır MS4.
. For new permittees only, have the targe ïrst year of permit coverage?	t audience lists been develope	d and implemented within the	Yes
2. Date of latest annual review of target audience lists:	07/30/2024	Were updates made	e? No
BMP #3: Annually publish at least one e	ducational item on your Stor	mwater Management Program.	

		je?
2. Date of latest annual review of educational materials:	07/30/2024	Were updates made? No
 Do you have a municipal website? URL: https://capitalregionwater. 	Yes	
• If Yes , what MS4-related material do		
Stormwater Introduction, City Beau	itiful H2O Program Plan, Street Swee	ping, Joint Pollutant Reduction Plan
4. Describe any other method(s) used d	uring the reporting period to provide i	nformation on stormwater to the public:
Refer to attachments "MS4 Public (education/outreach publications ar	-)1-2023 thru 07-31-2024", which summarizes the
5. Identify specific plans for the publicat	ion of stormwater materials for the up	coming year:
Refer to Attachment section for an	nual PEOP target activities and plan	
-	ets, booklets, brochures, radio, local	ducational materials during the previous reporting period cable TV, newspaper articles, other advertisements, bill ways, or storm drain stenciling).
posters, signs, pamphlets, booklets, broc presentations, conferences, meetings, fa Bill inserts, e-newsletters, social me	chures, radio, local cable TV, newspape	
MCM #1 Comments:		
CRW's annual update on PEOP acti	vities is included in Attachment. CR	W's PEOP is included in Attachment section.
CRW's annual update on PEOP acti MCM #1 Attachments:		
CRW's annual update on PEOP acti	vities is included in Attachment. CR Document Type Public Education and Outreach Program Plan	W's PEOP is included in Attachment section. Short Description CRW PEOP Plan
CRW's annual update on PEOP acti MCM #1 Attachments: File Name Public Outreach and Education	Document Type Public Education and Outreach	Short Description
CRW's annual update on PEOP acti MCM #1 Attachments: File Name Public Outreach and Education Program (PEOP) Plan.pdf MS4 Public Outreach and Education Update 08-01-2023 thru	Document Type Public Education and Outreach Program Plan Stormwater Educational Materials	Short Description CRW PEOP Plan Publication and Distribution of Stormwater Education
CRW's annual update on PEOP acti MCM #1 Attachments: File Name Public Outreach and Education Program (PEOP) Plan.pdf MS4 Public Outreach and Education Update 08-01-2023 thru 07-31-2024.pdf	Document Type Public Education and Outreach Program Plan Stormwater Educational Materials cicipation Module	Short Description CRW PEOP Plan Publication and Distribution of Stormwater Education Information for the reporting period
CRW's annual update on PEOP acti MCM #1 Attachments: File Name Public Outreach and Education Program (PEOP) Plan.pdf MS4 Public Outreach and Education Update 08-01-2023 thru 07-31-2024.pdf MCM #2 – Public Involvement/Part	Document Type Public Education and Outreach Program Plan Stormwater Educational Materials Elicipation Module	Short Description CRW PEOP Plan Publication and Distribution of Stormwater Education Information for the reporting period

Was an MS4-related ordinance, SO	P, PRP or TMDL Plan developed during the	e reporting period?	Νο
If <u>Yes</u> , describe how you advertised	the draft document(s) and how you provi	ded opportunities for pub	lic review, input and feedback:
. If an ordinance, SOP or plan was de	eveloped or amended during the reporting	period, provide the follow	ving information:
Ordinance/SOP/Plan Name	Date of Public Not	ice Date of Public Hearing	Date Enacted or Submitted to DEP
	No data available in	table	
BMP #3: Regularly solicit public involution of the second se	volvement and participation from the tar	get audience groups usi	ng available distribution and
	er MS4 event must be held during the 5-ye dback from target audience groups. Was t		Yes
If Yes , Date of Meeting or Event:	05/30/2024		
rganizations; and similar instances of Capital Region Water's City Beau exploring the Municipal Separate	d participation in MS4 activities; presentat of participation or coordination with organ utiful H20 Stormwater Carnival, held on N e Storm Sewer System (MS4) and its envi	izations in the community May 30th, 2024, successfu ironmental impacts. The	/. ul engaged the community in event fostered a fun, family-
rganizations; and similar instances of Capital Region Water's City Beau exploring the Municipal Separat friendly atmosphere while provision stormwater runoff reduction teo Assessment. Attendees participa	of participation or coordination with organ utiful H20 Stormwater Carnival, held on N	izations in the community May 30th, 2024, successfu ironmental impacts. The en stormwater infrastruc CBH2O Alternatives Analy toured rain gardens, and	/. ul engaged the community in event fostered a fun, family- cture, litter prevention, and ysis and Financial Capabilities witnessed CCTV robotics
rganizations; and similar instances of Capital Region Water's City Beau exploring the Municipal Separate friendly atmosphere while provis stormwater runoff reduction teo Assessment. Attendees participa demonstrations. CRW experts w	of participation or coordination with organ utiful H2O Stormwater Carnival, held on N e Storm Sewer System (MS4) and its envi ding valuable education on the MS4, gre hniques—including information on the G ated in interactive activities and games,	izations in the community May 30th, 2024, successfu ironmental impacts. The en stormwater infrastruc CBH2O Alternatives Analy toured rain gardens, and ather community feedbar ne meetings and in the im	/- ul engaged the community in event fostered a fun, family- cture, litter prevention, and ysis and Financial Capabilities witnessed CCTV robotics ck on current and future projects
rganizations; and similar instances of Capital Region Water's City Bear exploring the Municipal Separate friendly atmosphere while provision stormwater runoff reduction teo Assessment. Attendees participa demonstrations. CRW experts w	of participation or coordination with organ utiful H2O Stormwater Carnival, held on M e Storm Sewer System (MS4) and its envi ding valuable education on the MS4, gre hniques—including information on the C ated in interactive activities and games, ere available to answer questions and games s of the public assisted or participated in th	izations in the community May 30th, 2024, successfu ironmental impacts. The en stormwater infrastruc CBH2O Alternatives Analy toured rain gardens, and ather community feedbar he meetings and in the im ain stenciling, or others. these event CRW provid	2. ul engaged the community in event fostered a fun, family- cture, litter prevention, and ysis and Financial Capabilities witnessed CCTV robotics ck on current and future projects
rganizations; and similar instances of Capital Region Water's City Beau exploring the Municipal Separat friendly atmosphere while provis stormwater runoff reduction teo Assessment. Attendees participa demonstrations. CRW experts w	of participation or coordination with organ utiful H2O Stormwater Carnival, held on h e Storm Sewer System (MS4) and its envi ding valuable education on the MS4, gre hniques—including information on the C ated in interactive activities and games, ere available to answer questions and ga s of the public assisted or participated in the rts such as cleanups, monitoring, storm dra ated cleanups throughout the year. During	izations in the community May 30th, 2024, successfu ironmental impacts. The en stormwater infrastruc CBH2O Alternatives Analy toured rain gardens, and ather community feedbar he meetings and in the im ain stenciling, or others. these event CRW provid	2. ul engaged the community in event fostered a fun, family- cture, litter prevention, and ysis and Financial Capabilities witnessed CCTV robotics ck on current and future projects
rganizations; and similar instances of Capital Region Water's City Bear exploring the Municipal Separate friendly atmosphere while provision stormwater runoff reduction teo Assessment. Attendees participa demonstrations. CRW experts w	of participation or coordination with organ utiful H2O Stormwater Carnival, held on h e Storm Sewer System (MS4) and its envi ding valuable education on the MS4, gre hniques—including information on the C ated in interactive activities and games, ere available to answer questions and ga s of the public assisted or participated in the rts such as cleanups, monitoring, storm dra and cleanups throughout the year. During hwater activities and project implements	izations in the community May 30th, 2024, successfu ironmental impacts. The en stormwater infrastruc CBH2O Alternatives Analy toured rain gardens, and ather community feedbar he meetings and in the im ain stenciling, or others. these event CRW provid	2. ul engaged the community in event fostered a fun, family- cture, litter prevention, and ysis and Financial Capabilities witnessed CCTV robotics ck on current and future projects
rganizations; and similar instances of Capital Region Water's City Bear exploring the Municipal Separate friendly atmosphere while provi- stormwater runoff reduction teo Assessment. Attendees participa demonstrations. CRW experts w Report activities in which member foluding education activities or effor CRW assists in various events ar educates resident on CRW storm ACM #2 Comments:	of participation or coordination with organ utiful H2O Stormwater Carnival, held on h e Storm Sewer System (MS4) and its envi ding valuable education on the MS4, gre hniques—including information on the C ated in interactive activities and games, ere available to answer questions and ga s of the public assisted or participated in the rts such as cleanups, monitoring, storm dra and cleanups throughout the year. During hwater activities and project implements	izations in the community May 30th, 2024, successfu ironmental impacts. The en stormwater infrastruc CBH2O Alternatives Analy toured rain gardens, and ather community feedbar he meetings and in the im ain stenciling, or others. these event CRW provid	2. ul engaged the community in event fostered a fun, family- cture, litter prevention, and ysis and Financial Capabilities witnessed CCTV robotics ck on current and future projects
rganizations; and similar instances of Capital Region Water's City Beau exploring the Municipal Separation friendly atmosphere while provi- stormwater runoff reduction teo Assessment. Attendees participa demonstrations. CRW experts w Report activities in which member focuding education activities or effor CRW assists in various events ar educates resident on CRW storm ACM #2 Comments:	of participation or coordination with organ utiful H2O Stormwater Carnival, held on h e Storm Sewer System (MS4) and its envi ding valuable education on the MS4, gre hniques—including information on the C ated in interactive activities and games, ere available to answer questions and ga s of the public assisted or participated in the rts such as cleanups, monitoring, storm dra and cleanups throughout the year. During hwater activities and project implements	izations in the community May 30th, 2024, successfu ironmental impacts. The en stormwater infrastruc CBH2O Alternatives Analy toured rain gardens, and ather community feedbar he meetings and in the im ain stenciling, or others. these event CRW provid	2. ul engaged the community in event fostered a fun, family- cture, litter prevention, and ysis and Financial Capabilities witnessed CCTV robotics ck on current and future projects
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program:	al review of IDD&E	07/30/2024	Were updates made?	Νο
pplicable, observati		tions and names of	d urbanized area boundaries, the location o all surface waters that receive discharges f	-
. Have you completed	a map(s) that includes a	all components of Bi	MP #2?	Yes
If <u>Yes</u> and you are a	new permittee and hav	e not submitted the	map(s) previously, attach the map(s) to this r	eport.
If No , date by which	n permittee expects map	o(s) to be completed:	:	
2. Date of last update of	or revision to map(s):	09/02	2/2024	
3. Total No. of Outfalls i	n MS4:	84	Total No. of Outfalls Mapped:	84
4. Total No. of Observa	tion Points:	0	Total No. of Observation Points Mappe	d: O
			tfalls that have not been previously reported t utfalls proposed for the next reporting period	Ves
lf <u>Yes</u> , select:	Existing Outfall(s) Ide	entified Yes	New Outfall(s) Proposed	Νο
develop and maintai or operated by the p sewer collection syst property receive stor	n map(s) that show the ermittee (including roa em), including privatel mwater flows from ups	entire storm sewer ds, inlets, piping, sv y-owned componer stream publicly-owr		risdiction that are owned components of the storm
develop and maintai or operated by the p sewer collection syst property receive stor . Have you completed	n map(s) that show the ermittee (including road em), including privately mwater flows from ups a map(s) that includes a	entire storm sewer ds, inlets, piping, sv y-owned componer stream publicly-owr all components of Bł	r collection system within the permittee's ju vales, catch basins, channels, and any other hts of the collection system where conveyar ned components. MP #3? Yes	urisdiction that are owned r components of the storm nces or BMPs on private
develop and maintai or operated by the p sewer collection syst property receive stor . Have you completed If <u>Yes</u> and you are a	n map(s) that show the ermittee (including road em), including privately mwater flows from ups a map(s) that includes a	e entire storm sewer ds, inlets, piping, sv y-owned componer stream publicly-owr all components of Bł e not submitted the	r collection system within the permittee's ju wales, catch basins, channels, and any other hts of the collection system where conveyar ned components. MP #3? Yes map(s) previously, attach the map(s) to this re	urisdiction that are owned r components of the storm nces or BMPs on private
develop and maintai or operated by the p sewer collection syst property receive stor . Have you completed If <u>Yes</u> and you are a If <u>No</u> , date by which	n map(s) that show the emittee (including road em), including privately mwater flows from ups a map(s) that includes a new permittee and hav	e entire storm sewer ds, inlets, piping, sv y-owned componer stream publicly-owr all components of Bł e not submitted the b(s) to be completed:	r collection system within the permittee's ju vales, catch basins, channels, and any other nots of the collection system where conveyar ned components. MP #3? Yes map(s) previously, attach the map(s) to this re	urisdiction that are owned r components of the storm nces or BMPs on private
develop and maintai or operated by the p sewer collection syst property receive stor . Have you completed If <u>Yes</u> and you are a If <u>No</u> , date by which	n map(s) that show the emittee (including road em), including privately mwater flows from ups a map(s) that includes a new permittee and hav permittee expects map ap(s) on the same map(s	e entire storm sewer ds, inlets, piping, sv y-owned componer stream publicly-owr all components of Bł e not submitted the b(s) to be completed:	r collection system within the permittee's ju vales, catch basins, channels, and any other nots of the collection system where conveyar ned components. MP #3? Yes map(s) previously, attach the map(s) to this re	urisdiction that are owned r components of the storm inces or BMPs on private
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develop and maintai or operated by the po- sewer collection syst property receive stor . Have you completed If <u>Yes</u> and you are a If <u>No</u> , date by which 2. If <u>Yes</u> to #1, is the ma 3. Date of last update of BMP #4: Conduct dry present, the permitte permittee shall also r associated with the so DEP illicit discharges danger of pollution of For new permittees, al the 5-year period follow screen during dry wea	n map(s) that show the ermittee (including road em), including privately mwater flows from ups a map(s) that includes a new permittee and hav a permittee expects map ap(s) on the same map(s) or revision to map(s): y weather screenings o es shall identify the sources of that would endanger of r would damage prope	e entire storm sewer ds, inlets, piping, sv y-owned componer stream publicly-owr all components of Bł e not submitted the b(s) to be completed: c) as for outfalls and r 09/02 f MS4 outfalls to eva irce(s) and take app ived from the publi well as take enforc users downstream for rty. if applicable observa- or existing permittee to the 5-year period for	r collection system within the permittee's juvales, catch basins, channels, and any other ints of the collection system where conveyant and components. MP #3? Yes map(s) previously, attach the map(s) to this re- receiving waters? 2/2024 aluate the presence of illicit discharges. If a propriate actions to remove or correct any illic or other agencies of suspected or confirm rement action as necessary. The permittee s	Arisdiction that are owned r components of the storm inces or BMPs on private eport. Yes Ny illicit discharges are licit discharges. The ned illicit discharges. The ned illicit discharges shall immediately report to ult in pollution or create a ather at least twice within ervation points) must be past problems have been
develop and maintai or operated by the po- sewer collection syst property receive stor . Have you completed If <u>Yes</u> and you are a If <u>No</u> , date by which 2. If <u>Yes</u> to #1, is the main 3. Date of last update of BMP #4: Conduct dry present, the permittee permittee shall also ra associated with the se DEP illicit discharges danger of pollution of For new permittees, al the 5-year period follow screen during dry wea eported or known sou coverage.	n map(s) that show the ermittee (including road em), including privately mwater flows from ups a map(s) that includes a new permittee and hav a permittee expects map ap(s) on the same map(s or revision to map(s): ap(s) on the same map(s) ap(s) on the same map(e entire storm sewer ds, inlets, piping, sv y-owned componer stream publicly-owr all components of Bi e not submitted the b(s) to be completed: c) as for outfalls and r 09/02 f MS4 outfalls to eva urce(s) and take app ived from the publi well as take enforc users downstream for the 5-year period for s occur on a continu	r collection system within the permittee's ju vales, catch basins, channels, and any other ints of the collection system where conveyant end components. MP #3? Yes map(s) previously, attach the map(s) to this re- receiving waters? 2/2024 aluate the presence of illicit discharges. If a propriate actions to remove or correct any il is or other agencies of suspected or confirm rement action as necessary. The permittee s from the discharge, or would otherwise rest ation points) must be screened during dry we es, all identified outfalls (and if applicable obse pollowing permit coverage and, for areas where	Arisdiction that are owned r components of the storm inces or BMPs on private eport. Yes Ny illicit discharges are licit discharges. The ned illicit discharges. The ned illicit discharges shall immediately report to ult in pollution or create a ather at least twice within ervation points) must be past problems have been

3. Indicate the percent of outfalls so	creened during the reporting period that revealed dry weather flows:	15 %
4. Did any dry weather flows reveal	l color, turbidity, sheen, odor, floating or submerged solids?	Νο
5. If <u>Yes</u> for #4, attach all sample re attachment.	sults to this report with a map identifying the sample location. Explain the corrective	eaction(s) taken in the
	Screening Report form <u>(3800-FM-BCW0521)</u> ietFolder?FolderID=2740) provided in the permit?	Νο
	ening report form. nagement Ordinance or SOP to implement and enforce a stormwater manageme nwater discharges to the regulated small MS4.	ent program that
1. Do you have an ordinance (munio discharges?	cipal) or SOP or other mechanism (non-municipal) that prohibits non-stormwater	Yes
If <u>Yes</u> , indicate the date of the o	rdinance or SOP:	
Date of the Ordinance	Borough/Township Name?	
02/01/2020	Capital Region Water Wastewater and Stormwater Rules and Regulation	
If Yes to #1 and the ordinance of	r SOP has not been submitted to DEP previously, attach the ordinance or SOP.	
	ordinance or SOP during the reporting period? below (attach additional sheets as necessary).	Νο
	below (attach additional sheets as necessary).	No nent Taken
If Yes to #3, complete the table	below (attach additional sheets as necessary).	
If <u>Yes</u> to #3, complete the table Violation Date Nature of	below (attach additional sheets as necessary). Violation Responsible Party Enforcem No data available in table ariance during the reporting period that allowed an exception to non-stormwater	
If <u>Yes</u> to #3, complete the table Violation Date Nature of 4. Did you approve any waiver or va discharge provisions of an ordinance	below (attach additional sheets as necessary). Violation Responsible Party Enforcem No data available in table ariance during the reporting period that allowed an exception to non-stormwater	nent Taken
If <u>Yes</u> to #3, complete the table Violation Date Nature of 4. 4. Did you approve any waiver or va discharge provisions of an ordinand If <u>Yes</u> to #4, identify the entity the BMP #6: Provide educational out	below (attach additional sheets as necessary). Violation Responsible Party Enforcem No data available in table ariance during the reporting period that allowed an exception to non-stormwater ce or SOP?	nent Taken No ved.
If <u>Yes</u> to #3, complete the table Violation Date Nature of 4. Did you approve any waiver or vadischarge provisions of an ordinant If <u>Yes</u> to #4, identify the entity the BMP #6: Provide educational out and elected officials (i.e., target a	below (attach additional sheets as necessary). Violation Responsible Party Enforcem No data available in table ariance during the reporting period that allowed an exception to non-stormwater ce or SOP? hat received the waiver or variance and the type of non-stormwater discharge appro	nent Taken No ved.
If <u>Yes</u> to #3, complete the table Violation Date Nature of 4. Did you approve any waiver or va discharge provisions of an ordinand If <u>Yes</u> to #4, identify the entity the BMP #6: Provide educational out and elected officials (i.e., target a 1. Was IDD&E-related information of	below (attach additional sheets as necessary). Violation Responsible Party Enforcem No data available in table ariance during the reporting period that allowed an exception to non-stormwater ce or SOP? hat received the waiver or variance and the type of non-stormwater discharge appro- treach to public employees, business owners and employees, property owners, the audiences) about the program to detect and eliminate illicit discharges.	nent Taken No ved.
If <u>Yes</u> to #3, complete the table Violation Date Nature of 1 4. Did you approve any waiver or va discharge provisions of an ordinand If <u>Yes</u> to #4, identify the entity the BMP #6: Provide educational out and elected officials (i.e., target and 1. Was IDD&E-related information of reporting period? If <u>Yes</u> , what was distributed?	below (attach additional sheets as necessary). Violation Responsible Party Enforcem No data available in table ariance during the reporting period that allowed an exception to non-stormwater ce or SOP? hat received the waiver or variance and the type of non-stormwater discharge appro treach to public employees, business owners and employees, property owners, th audiences) about the program to detect and eliminate illicit discharges. distributed to public employees, businesses, and the general public during the f MCM#1 - "MS4 Public Outreach and Education Updates 08-01-2023 thru 07-31-20	nent Taken No ved. ne general public Yes
If <u>Yes</u> to #3, complete the table Violation Date Nature of 7 4. Did you approve any waiver or va discharge provisions of an ordinand If <u>Yes</u> to #4, identify the entity the BMP #6: Provide educational out and elected officials (i.e., target a 1. Was IDD&E-related information of reporting period? If <u>Yes</u> , what was distributed? Refer to Attachment section of details on FOG and IDDE educ	below (attach additional sheets as necessary). Violation Responsible Party Enforcem No data available in table ariance during the reporting period that allowed an exception to non-stormwater ce or SOP? hat received the waiver or variance and the type of non-stormwater discharge appro treach to public employees, business owners and employees, property owners, th audiences) about the program to detect and eliminate illicit discharges. distributed to public employees, businesses, and the general public during the f MCM#1 - "MS4 Public Outreach and Education Updates 08-01-2023 thru 07-31-20	nent Taken No ved. ne general public Yes
If <u>Yes</u> to #3, complete the table Violation Date Nature of 1 4. Did you approve any waiver or va discharge provisions of an ordinand If <u>Yes</u> to #4, identify the entity the BMP #6: Provide educational out and elected officials (i.e., target a 1. Was IDD&E-related information of reporting period? If <u>Yes</u> , what was distributed? Refer to Attachment section of details on FOG and IDDE educ 2. Is there a well-publicized method incidents?	below (attach additional sheets as necessary). Violation Responsible Party Enforcem No data available in table ariance during the reporting period that allowed an exception to non-stormwater ce or SOP? hat received the waiver or variance and the type of non-stormwater discharge appro treach to public employees, business owners and employees, property owners, the audiences) about the program to detect and eliminate illicit discharges. distributed to public employees, businesses, and the general public during the f MCM#1 - "MS4 Public Outreach and Education Updates 08-01-2023 thru 07-31-20 ational outreach activities.	nent Taken No ved. ne general public Yes D24" for further

CRW's IDDE program is integrated within the Operation and Maintenance Manual, Nine Minimum Controls Plan, and Cityworks. The Cityworks IDDE workflow is included in the Attachment section. CRW has a map of the MS4 area and outfalls, which is included in the Attachments. CRW has incorporated an outfall inspection procedure in their Operations and Maintenance Manual (March 2021) and also developed Cityworks based on the DEP inspection form. Refer to Attachments for workflow documentation. Refer to attachment CRW MS4 Maps (Sept 2024). CRW mapping is as complete as possible as we continue to refine and update our catchments as we discover new outfalls.

MCM #3 Attachments:

File Name	Document Type	Short Description
Appendix B and C - Pathogen and PCB Source Investigation Plan.pdf	PCM Source Investigation	CRW Appendix B and C - Pathogen and PCB Source Investigation Plan
Storm Control Measure and Compliance Cityworks Templates.pdf	MS4 Outfall Field Screening Report	Stormwater outfall and illicit discharge Cityworks inspections templates
CRW MS4 Maps Sept 2024.pdf	MS4 Map	Capital Region Water MS4 Maps

MCM #4 – Construction Site St	ormwater Runoff Control 🛛 📀	^
Are you relying on PA's statewide pr MCM?	ogram for stormwater associated with construction activities to satisfy this	Yes
(If Yes , respond to questions for BM	P Nos. 1, 2 and 3 only in this section. If No, respond to questions for all BMPs in this se	ction)
BMP #1: Develop, implement and	maintain a written Public Involvement and Participation Program (PIPP)	
permits or approvals until DEP or a	u comply with 25 Pa. Code § 102.43 (relating to withholding building or other county conservation district (CCD) has approved NPDES permit coverage)? Note: rere received you may select Not Applicable.	Yes
	which issues building or other permits shall notify DEP or the applicable CCD wi mit involving an earth disturbance activity consisting of one acre or more, in acc	
	u comply with 25 Pa. Code § 102.42 (relating to notifying DEP/CCD within 5 days of n earth disturbance activity of one acre or more)? Note: If no building permit select Not Applicable.	Yes
BMP #3: Enact, implement and er including sanctions for non-comp	nforce an ordinance or SOP to require the implementation and maintenance of E pliance, as applicable.	&S control BMPs,
1. Do you have an ordinance (munic and maintenance of E&S control BN	ipal) or SOP or other mechanism (non-municipal) that requires implementation IPs?	Yes
If Yes , indicate the date of the or	dinance or SOP:	
Date of the Ordinance	Borough/Township Name?	
02/01/2020	Capital Region Water Wastewater and Stormwater Rules and Regulation	
2. If Yes to #1, is the ordinance or SC PMBCW0100j)?	P consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-	Yes
3. If <u>Yes</u> to #1 and the ordinance or S	GOP has not been submitted previously, attach a copy of the ordinance or SOP.	
BMP #4: Review Erosion and Sedi meet regulatory requirements.	ment (E&S) control plans to ensure that such plans adequately consider water qu	uality impacts and
Specify the number of E&S Plans	you reviewed during the reporting period:	

this permit.		tion results, in accordance with the record	h disturbance activities. retention requirements in
Specify the number of E&S ir	nspections you completed during th	ne reporting period:	
Not Applicable			
BMP #6: Conduct enforcemer not comply with permit and/c		nce of E&S control measures during earth c	listurbance activities does
Specify the number of enfor	cement actions you took during the	reporting period for improper E&S:	
Not Applicable			
	-	n site operators to control waste at construc ducation on these requirements to construc	-
Specify the method(s) by wh	nich you are educating construction	site operators on controlling waste at constru	iction sites:
Not Applicable			
	nent procedures for the receipt and ne permittee regarding local constr	d consideration of public inquiries, concern ruction activities.	s, and information
. A tracking system has been e	stablished for receipt of public inqui	ries and complaints.	Not Applicable
. Specify the number of inquiri	ies and complaints received during t	the reporting period:	
Not Applicable			
MCM #4 Comments:			
CRW has a Memorandum c		unty Conservation District and an updated	Memorandum of
Understanding with Dauph	nin County and the City of Harrisou	ng is in diale form and awarding final execu	tion.
Understanding with Dauph	nin County and the City of Harrisou		tion.
Understanding with Dauph	Document Type	Short Description	tion.
Understanding with Dauph	Document Type		tion.
Understanding with Dauph MCM #4 Attachments: File Name	Document Type No attach	Short Description	
Understanding with Dauph MCM #4 Attachments: File Name MCM #5 – Post-Constructio BMP #1: Enact, implement an	Document Type No attacht	Short Description ments in the table. ent in New Development & Redevelopm	nent Module 📀 🔥
Understanding with Dauph MCM #4 Attachments: File Name ACM #5 – Post-Constructio BMP #1: Enact, implement and development and redevelopm	Document Type No attach on Stormwater Water Managem Ind enforce an ordinance or SOP to r ment projects, including sanctions	Short Description ments in the table. ent in New Development & Redevelopm require post-construction stormwater mana for non-compliance.	nent Module 📀 🔨
Understanding with Dauph MCM #4 Attachments: File Name MCM #5 – Post-Constructio BMP #1: Enact, implement and development and redevelopm	Document Type No attach on Stormwater Water Managem ad enforce an ordinance or SOP to r ment projects, including sanctions uunicipal) or SOP or other mechanism truction stormwater management (F	Short Description ments in the table. ent in New Development & Redevelopm require post-construction stormwater mana for non-compliance.	nent Module 📀 🔨
Understanding with Dauph MCM #4 Attachments: File Name MCM #5 – Post-Constructio BMP #1: Enact, implement and development and redevelopm . Do you have an ordinance (minimum maintenance of post-const	Document Type No attach on Stormwater Water Managem ad enforce an ordinance or SOP to r ment projects, including sanctions uunicipal) or SOP or other mechanism truction stormwater management (F	Short Description ments in the table. ent in New Development & Redevelopm require post-construction stormwater mana for non-compliance. n (non-municipal) that requires implementat PCSM) BMPs?	nent Module 📀 🔨

2. If <u>Yes</u> to #1, is the ordinance or SOP consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j)?

Yes

3. If <u>Yes</u> to #1 and the ordinance o	r SOP has not been submitted previously, attach a copy of the ordinance or SOP.	
and redevelopment. Measures s	nt measures to encourage and expand the use of Low Impact Development (LID) i should also be included to encourage retrofitting LID into existing development. B nd repeal sections of ordinances that conflict with LID practices.	
l. Do you have an ordinance (mun the use of LID in new developmer	nicipal) or SOP or other mechanism (non-municipal) that encourages and expands nt and redevelopment?	Yes
If Yes , indicate the date of the o	ordinance or SOP:	
Date of the Ordinance	Borough/Township Name?	
01/01/2020	Capital Region Water Wastewater and Stormwater Rules and Regulations	
2. If <u>Yes</u> to #1, is the ordinance or S PMBCW0100j)?	SOP consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-	Yes
3. If <u>Yes</u> to #1 and the ordinance o	r SOP has not been submitted previously, attach a copy of the ordinance or SOP.	
	of all post-construction stormwater management BMPs that have been installed sturb greater than or equal to one acre, including projects less than one acre that or sale.	
	PCSM BMPs that were installed to meet requirements in NPDES Permits for d with Construction Activities approved since March 10, 2003?	Yes
If Yes to #1, complete Table 1 in	the next module.	
2. Has proper O&M occurred durir	ng the reporting period for all PCSM BMPs?	Yes
3. If <u>No</u> to #2, explain what acti	on(s) the permittee has taken or plans to take to ensure proper O&M.	
	vide program for stormwater associated with construction activities, you may skij Is for BMPs #4 - #6 in this section.)	o to MCM #6,
	tation of a combination of structural and/or non-structural BMPs that are approp er quality impacts, and that are designed to maintain pre-development runoff cor	
	ans reviewed during the reporting period for projects disturbing greater than or equa acre that are part of a larger common plan of development or sale).	to one acre
Not Applicable		
2. Has a tracking system been esta	ablished and maintained to record qualifying projects and their associated BMPs?	Not Applicable
qualifying development or rede structural PCSM BMPs. A tracki	re installed that shall prevent or minimize water quality impacts. The permittee shevelopment projects during the construction phase to ensure proper installation on gystem (e.g., database, spreadsheet, or written list) shall be implemented to trauluts of the inspections (e.g., BMPs were, or were not, installed properly).	f the approved
	e you inspected all qualifying development and redevelopment projects during proper installation of approved structural BMPs?	Not Applicable
2. Has a tracking system been esta	ablished and maintained to record results of inspections?	Not Applicable
BMP #6: Develop a written proc	edure that describes how the permittee shall address all required components of	this MCM.

Have you developed a written plan that addresses: 1) minimum requirements for use of structural and/or nonstructural BMPs in plans for development and redevelopment; 2) criteria for selecting and standards for sizing Not Applicable stormwater BMPs; and 3) implementation of an inspection program to ensure that BMPs are properly installed? MCM #5 Comments: CRW has a Memorandum of Understanding with Dauphin County Conservation District and an updated Memorandum of Understanding with Dauphin County and the City of Harrisburg is in draft form and awaiting final execution. As a new Permitte, CRW is coordinating with the City of Harrisburg and DCCD to obtain historical records on additional existing PCSM BMPs prior to 2017. MCM #5 Attachments: File Name Document Type Short Description No attachments in the table. **PCSM BMP Inventory Table** へ Table 1. To complete the information needed for MCM #5, BMP #3, list all existing structural BMPs that discharge stormwater to the permittee's MS4 that were installed to satisfy PCSM requirements for earth disturbance activities under Chapter 102, and provide the requested information. Note: Any BMP data entered/uploaded will be prepopulated in the next reporting year. You may enter your BMPs manually or upload them using our template. Date of BMP Date Drain **BMP** Name Latest Lattitude Satisfactory Active Lonaitude No. Installed Area Inspection **Bioretention - Raingarden** 1 10/15/2018 07/24/2024 Yes 40.295357 -76.888006 16.5 (A/B soils w/o underdrain) Entity Responsible for O&M: O&M Requirements: Permit Number: Description: HACC Facilities Department BMP types: Rain Gardens, berms, ves 717-780-1126 basins Drainage: MS4 **Bioretention - Raingarden** 2 11/05/2018 07/17/2024 40.254222 -76.852469 Yes 1.61 (A/B soils w/ underdrain) Entity Responsible for O&M: **O&M Requirements:** Permit Number: Description: Paxton Ministries 717-236-**BMP types: Rain Gardens, Bioretention** yes 5508 basins Drainage: Combine 3 **Dry Detention Basin** 08/04/2018 07/17/2024 Yes 40.264478 -76.865524 3.35 Entity Responsible for O&M: O&M Requirements: Permit Number: Description: Terese M. Delaplaine, J.D. **BMP types: Rain Gardens, subsurface** ves CEO 717-230-3910 basins Drainage: Combine **Bioretention - Raingarden** 4 04/05/2018 07/24/2024 Yes 40.299113 -76.894725 1.65 (A/B soils w/ underdrain)

BMP No.	BMP Name	Date Installed	Date of Latest Inspection	Satisfactory	Active	Lattitude	Longitude	Drain Area
Entiț	y Responsible for O&M:	O&M Requireme	nts:	Permit Number:	Des	scription:		
WHT 236-2	'M - Keith Blaidell 717- 2727	yes				P types: Rain (nbine	Cardens Draina	ge:
5	Bioretention - Raingarden (C/D soils w/ underdrain)	11/05/2018	07/24/2024	~	Yes	40.300556	-76.890131	7.4
Entiț	y Responsible for O&M:	O&M Requireme	nts:	Permit Number:	Des	scription:		
	Industrial Road ciates 717-645-2254	yes				P types: Rain (ins Drainage: (Gardens, subsu Combine	rface
6	Other	05/15/2019	07/24/2024	~	Yes	40.258498	-76.86173	0.99
Entit	y Responsible for O&M:	O&M Requireme	nts:	Permit Number:	Des	scription:		
	ounseling Services Inc. 695-7919	yes				P types: Subsu in Drainage: C	Irface Detentio ombine	n
7	Bioretention - Raingarden (A/B soils w/ underdrain)	12/10/2019	07/17/2024	~	Yes	40.267163	-76.841589	6.83
Entiț	y Responsible for O&M:	O&M Requireme	nts:	Permit Number:	Des	scription:		
Majo 6755	r John Griner 717-233-	yes			BMI MS4		Gardens Draina	ge:
8	Infiltration Practices	11/18/2020	07/24/2024	~	Yes	40.280751	-76.888466	0.73
Entiț	y Responsible for O&M:	O&M Requireme	nts:	Permit Number:	Des	scription:		
Varta Harri	Buonarroti Truts 3605 an Way, Suite 301 isburg, PA 17110 717-657- ext.244	yes				P types: Infiltra nbine	ation Basin Dra	inage:
9	Vegetated Open Channels (A/B soils)	^s 09/08/2020	11/18/2020	~	Yes	40.282879	-76.88301	12.52
Entiț	y Responsible for O&M:	O&M Requireme	nts:	Permit Number:	Des	scription:		
Farm 787-5	n Show Complex (717) 5373	yes			BM	P types: Swale	Drainage: Con	nbine
10	Bioretention - Raingarden (A/B soils w/o underdrain)	11/01/2020	07/17/2024	~	Yes	40.264893	-76.863472	0.85
Entit	y Responsible for O&M:	O&M Requireme	nts:	Permit Number:	Des	scription:		
2675	te Haven Capital LLC Baltybunion Road er Valley, PA 19034 917- 3534	yes				P types: Deten nbine	ition Basin Dra	inage:
11	Other	12/15/2021	11/05/2021	~	Yes	40.275855	-76.876187	1.65

BMP No.	BMP Name	Date Installed	Date of Latest Inspection	Satisfactory	Active	Lattitude	Longitude	Drain Area
Entit	y Responsible for O&M:	O&M Requireme	nts:	Permit Number:	Des	cription:		
	S. 3rd Street Suite 101 byne, PA 17043	yes				9 types: Infiltra nbine	ation Beds Drai	nage:
12	Infiltration Practices	08/10/2022	07/17/2024	~	Yes	40.27534	-76.862359	0.43
Entit	y Responsible for O&M:	O&M Requireme	nts:	Permit Number:	Desc	cription:		
Deve x233	ly Mallow Director of elopment 717-257-4442 5 or llow@bethesdamission.org	yes				P types: Rain C ement Draina	Gardens, Perme ge: Combine	able
13	Other	06/26/2021	08/10/2021	~	Yes	40.287113	-76.889263	11.35
Entit	y Responsible for O&M:	O&M Requireme	nts:	Permit Number:	Dese	cription:		
Hud Sher	athan Hudson The son Companies 2450 nango Valley Freeway nitage, PA 16148 724- 1204	yes				P types: SWM nbine	Facility Drainag	je:
14	Other	10/28/2021	07/13/2021	~	Yes	40.278672	-76.873271	5.95
Entit	y Responsible for O&M:	O&M Requireme	nts:	Permit Number:	Des	cription:		
Dep	momWealth of PA artment of General ices 717-787-3893	yes			BMF MS4		Facility Drainag	je:
15	Bioretention - Raingarder							
	(C/D soils w/ underdrain)	05/10/2022	07/24/2024	~	Yes	40.30125	-76.889728	7.7
Entit	-	05/10/2022 O&M Requiremen		✔ Permit Number:		40.30125	-76.889728	7.7
Entit Ran d	(C/D soils w/ underdrain) y Responsible for O&M: dy Mower Director rattions 717-231-4040	05/10/2022		✔ Permit Number:	Desc	cription:	-76.889728 Drainage: Com	
Entit Ranc Ope	(C/D soils w/ underdrain) y Responsible for O&M: dy Mower Director rattions 717-231-4040	O&M Requirement		Permit Number:	Desc	cription:		
Entit Rand Ope x305	(C/D soils w/ underdrain) ay Responsible for O&M: dy Mower Director rattions 717-231-4040 5 Filter Strip Runoff	05/10/2022 O&M Requiremen yes	nts: 07/17/2024	Permit Number:	Desc BMF Yes	cription: > types: Basin	Drainage: Com	bine
Entit Rand Ope x305 16 Entit Brea Divis	(C/D soils w/ underdrain) ay Responsible for O&M: dy Mower Director rattions 717-231-4040 5 Filter Strip Runoff Reduction	05/10/2022 O&M Requiremen yes 02/05/2022	nts: 07/17/2024	~	Desa BMF Yes Desa BMF	cription: > types: Basin 40.248444 cription:	Drainage: Com	ıbine 2.57

BMP No.	BMP Name	Date Installed	Date of Latest Inspection	Satisfactory	Active	Lattitude	Longitude	Drain Area
Enti	ty Responsible for O&M:	O&M Requireme	nts:	Permit Number:	Des	scription:		
Dire	con Tom Hewitt ctorFacilities Phone: 720-2342	yes				P types: Perme inage: MS4	eable Pavemer	ıt
8	Infiltration Practices	01/08/2022	06/20/2022	~	Yes	40.308744	-76.887694	28.48
Enti	ty Responsible for O&M:	O&M Requireme	nts:	Permit Number:	Des	scription:		
Env 1184	h Freymiller ironmental Manager 40 Valley View Rd Eden rie, MN 55344 952-914- 9	yes				P types: Infiltra inage: MS4	ation Beds, Sw	ales
9	Other	10/24/2023	06/20/2024	~	Yes	40.282578	-76.889872	0.24
Enti	ty Responsible for O&M:	O&M Requireme	nts:	Permit Number:	Des	scription:		
Harv	np Curtain YMCA Jamien vey 2135 N. 6th Street 238-9622	yes				P types: Contro inage: Combin	ol Structure wi ne	th weir
20	Infiltration Practices	07/26/2023	06/20/2024	~	Yes	40.282062	-76.890044	0.8
Enti	ty Responsible for O&M:	O&M Requireme	nts:	Permit Number:	Des	scription:		
Harv	np Curtain YMCA Jamien vey 2135 N. 6th Street 238-9622	yes				•••	walls, Infiltrat Drainage: Com	
21	Infiltration Practices	01/18/2023	07/24/2024	~	Yes	40.276179	-76.886539	1.51
Enti	ty Responsible for O&M:	O&M Requireme	nts:	Permit Number:	Des	scription:		
	/C Archives Building) 783-3281	yes				P types: Infiltra nbine	ation Basin Dra	inage:
22	Bioretention - Raingarden (C/D soils w/ underdrain)	11/26/2023	07/17/2024	~	Yes	40.274766	-76.885558	3.61
Enti	ty Responsible for O&M:	O&M Requireme	nts:	Permit Number:	Des	scription:		
Ciha Hari	sion Supervisor Shawna ak 717-221-3959 (f) risburg Systems nager Jeff Groff 717-221- 3	yes			bed		Gardens, Infiltra /ater reuse Dra	
23	Other	08/20/2024	07/30/2024	~	Yes	40.279683	-76.88851	5
Enti	ty Responsible for O&M:	O&M Requireme	nts:	Permit Number:	Des	scription:		
Her	iam Wos P.O. Box 830, shey, PA 17033 717-520- 3 WosW@mhs-pa.org	yes		PAC220328		P types: Under inage: Combin	ground Storag Ie	e

BMP No.	BMP Name	Date Installed	Date of Latest Inspection	Satisfactory	Active	Lattitude	Longitude	Drain Area
24	Bioretention - Raingarden (C/D soils w/ underdrain)	03/18/2024	07/30/2024	~	Yes	40.243636	-76.863725	5
Entiț	y Responsible for O&M:	O&M Requiremen	nts:	Permit Number:	Des	cription:		
Vete Penr	nas Zimmerman rans Outreach of nsylvania 717-215-0305 zimmerman@ebg- om	yes		PAC220319		P types: Rain G in, Infiltration 4		
25	Other	10/20/2022		~	Yes	40.280944	-76.889814	0.71
Entiț	y Responsible for O&M:	O&M Requiremen	nts:	Permit Number:	Des	cription:		
Adar Mou	ty Group Holdings, LLC n Maust 1591 Stoney ntain Way Dauphin, PA 3 717-307-5501	yes				P types: SW Co nbine	onveyance Dra	inage:
26	Infiltration Practices	05/25/2024		~	Yes	40.268664	-76.885675	0.49
Entiț	y Responsible for O&M:	O&M Requiremen	nts:	Permit Number:	Des	cription:		
Asso	Goldman Bethel Village ciates 856-296-0670 oldman28@gmail.com	yes				P types: Under ility Drainage:	-	ation
27	Other	06/26/2024		~	Yes	40.252091	-76.861869	0.29
Entit	y Responsible for O&M:	O&M Requiremen	nts:	Permit Number:	Des	cription:		
7218	ge Fernandez 717-963- nandez@LatinoConnection.	yes ora				P types: Under inage: Combin		le
СМ #(5 – Pollution Prevention /	Good Housekee	eping Module	•				/
	Identify and document all on in stormwater runoff to th						-	rating
	ou identified all facilities and stormwater runoff into the N		nd operated by	the permittee that I	nave the p	potential to	Yes	
			07/31/202	4				
When	was the inventory last review	ed?		-				
When	was the inventory last review	ed?						
	was the inventory last review was it last updated?	ed?	01/20/202	1				
When MP #2 Mutar		naintain a written	01/20/202 O&M program	for all operations t			-	

2. Date of last review or update to written O&M program:

03/28/2024

Have you developed an employee tra	aining program?		Yes
Date of last review or update to trair	ning program:	06/03/2024	
Date of latest training: 0	6/20/2024		
Training topics covered:			
tools are shared, and regulatory of wide trainings, discussing develo provided on the City Beautiful H2 and the MS4 system requirement development is centered around	bligations are shared with the pment projects and upcoming O Program Plan's Alternatives s. 2. Stormwater Operations a CRW's growing Stormwater d larrisburg. During this training	e whole company. Quarterly m g regulations. During the Marc s Analysis long-term solutions nd Maintenance Training - Jur epartment, the MS4 permits r y we discussed surface and su	opics are presented, resources and neetings are also used for company ch 26th, 2024 meeting an overview wa to address combined sewer overflow ne 20th, 2024. Staff training and egulations, SCMs and O&M of SCMs bsurface maintenance, inlet cleaning.
Name(s) of training presenter(s):			
Claire Maulhardt - City Beautiful H Architect at AKRF Ken Freysinger			ndy Batunkyi - Senior Landscape
Names of training attendees:			
1 Most CPW employees training (· · · · · · · · · · · · · · · · · · ·		
i. Most CRW employees training (d managar staff (soo attacho)	4)
	see attached) 2.Operations an	d manager staff (see attached	(F
1CM #6 Comments:	see attached) 2.Operations an	d manager staff (see attached	(1
reporting a problem if they see it matter if it is in the combined or I pollution and illicit discharges.	s forms like our internal news in the City of Harrisburg. It is	letter to discuss and train our important for CRW to train ou	employees about illicit discharge and r employees to report a problem no
Capital Region Water uses variou reporting a problem if they see it matter if it is in the combined or I	s forms like our internal news in the City of Harrisburg. It is	letter to discuss and train our important for CRW to train ou	employees about illicit discharge and r employees to report a problem no
Capital Region Water uses variou reporting a problem if they see it matter if it is in the combined or I pollution and illicit discharges.	s forms like our internal news in the City of Harrisburg. It is	letter to discuss and train our important for CRW to train ou	r employees about illicit discharge and r employees to report a problem no ms to prevent and investigate
Capital Region Water uses variou reporting a problem if they see it matter if it is in the combined or I pollution and illicit discharges. ICM #6 Attachments:	s forms like our internal news in the City of Harrisburg. It is MS4 system, due to CRWs pro	letter to discuss and train our important for CRW to train ou active approach in both system Short Descriptior Training sign in sh	eets for the March 26, 2024 and the
Capital Region Water uses variou reporting a problem if they see it matter if it is in the combined or I pollution and illicit discharges. ICM #6 Attachments: File Name Training attendance Sheets.pdf	s forms like our internal news in the City of Harrisburg. It is MS4 system, due to CRWs pro Document Type	letter to discuss and train our important for CRW to train ou active approach in both system Short Description Training sign in sh	employees about illicit discharge and r employees to report a problem no ms to prevent and investigate eets for the March 26, 2024 and the nings.
Capital Region Water uses variou reporting a problem if they see it matter if it is in the combined or I pollution and illicit discharges. ICM #6 Attachments: File Name Training attendance Sheets.pdf CRW MS4 Maps Sept 2024.pdf	s forms like our internal news in the City of Harrisburg. It is MS4 system, due to CRWs pro Document Type Stormwater Training Prog MS4 Map	letter to discuss and train our important for CRW to train ou active approach in both system Short Description Training sign in sh June 20, 2024 train	employees about illicit discharge and r employees to report a problem no ms to prevent and investigate eets for the March 26, 2024 and the nings.
Capital Region Water uses variou reporting a problem if they see it matter if it is in the combined or I pollution and illicit discharges. ACM #6 Attachments: File Name Training attendance Sheets.pdf CRW MS4 Maps Sept 2024.pdf ollutant Control Measures (PCM	s forms like our internal news in the City of Harrisburg. It is MS4 system, due to CRWs pro Document Type Stormwater Training Prog MS4 Map	letter to discuss and train our important for CRW to train ou active approach in both system Short Description ram Training sign in sh June 20, 2024 train Capital Region Wa	employees about illicit discharge and r employees to report a problem no ms to prevent and investigate eets for the March 26, 2024 and the nings.
Capital Region Water uses variou reporting a problem if they see it matter if it is in the combined or I pollution and illicit discharges. ACM #6 Attachments: File Name Training attendance Sheets.pdf CRW MS4 Maps Sept 2024.pdf ollutant Control Measures (PCM	s forms like our internal news in the City of Harrisburg. It is MS4 system, due to CRWs pro Document Type Stormwater Training Prog MS4 Map	letter to discuss and train our important for CRW to train ou active approach in both system Short Description Training sign in sh June 20, 2024 train Capital Region Wa	r employees about illicit discharge and r employees to report a problem no ms to prevent and investigate neets for the March 26, 2024 and the nings. ater MS4 Maps
Capital Region Water uses variou reporting a problem if they see it matter if it is in the combined or I pollution and illicit discharges. ACM #6 Attachments: File Name Training attendance Sheets.pdf CRW MS4 Maps Sept 2024.pdf ollutant Control Measures (PCM policate the status of implementing ot applicable.	s forms like our internal news in the City of Harrisburg. It is MS4 system, due to CRWs pro Document Type Stormwater Training Prog MS4 Map 15) Module 📀 PCMs in Appendices A, B and	letter to discuss and train our important for CRW to train ou active approach in both system Short Description Training sign in sh June 20, 2024 train Capital Region Wa	r employees about illicit discharge and r employees to report a problem no ms to prevent and investigate n events for the March 26, 2024 and the nings. events for the March 26, 2024 and the nings.

Task		Attached	Date Comple	ted	ticipated mpletion Date
Investigation of Suspected Sources				07	/31/2025
Ordinance/SOP for Controlling Anima	al Wastes		02/02/2020		
PCM Comments:					
Refer to the attached CRW MS4 M and PCB Source Investigation plar gathering samples and testing the PCM Attachments:	in 2023 (atta	ched). Over the			
 File Name	Document	Туре	Short	Description	
Appendix B and C - Pathogen and	bocament	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		hogen and PCB Source	
PCB Source Investigation Plan.pdf	PCM Source	e Inventory		igation Plan.	
CRW MS4 Maps Sept 2024.pdf	MS4 Map		Capita	l Region Water MS4 M	ap
					•
Pollutant Reduction Plans (PRPs)	and TMDL P	lans Module	S		^
1. Complete this section if the developm application or was required by the perr					chment to the latest NOI or
Type of Plan	Pending Approval	Submission Date	DEP Approval Date	Surface Waters Addessed by Plan	
Chesapeake Bay PRP (Appendix D)		12/27/2019	07/22/2020	Chesapeake Bay, P Lake, UNT to Spring	axton Creek, Wildwood g Creek
Impaired Waters PRP (Appendix E)		12/27/2019	07/22/2020	Wildwood Lake, UI	NT to Spring Creek
TMDL Plan (Appendix F)		12/27/2019	07/22/2020	Paxton Creek	
Combined Chesapeake Bay / Impaired Waters PRP (include Chesepeake Bay in your entry)		12/27/2019	07/22/2020	Chesapeake Bay, P Lake, UNT to Spring	axton Creek, Wildwood g Creek
Combined PRP / TMDL Plan		12/27/2019	07/22/2020	Chesapeake Bay, P Lake, UNT to Spring	axton Creek, Wildwood g Creek
Joint Plan 🛛		ecked, list the na below)	ame of the MS4 gr	oup or names of all enti	ties participating in the joint
Joint Plan Participants:		The share perce	-		e); Susquehanna Township age of the watershed from
2. Identify the pollutants of concern an	d pollutant loa	d reduction requ	irements under th	ne permit.	
Type of Plan	Select	TSS Load (Ibs/yr)		TP Load Reduction (Ibs/yr)	TN Load Reduction (Ibs/yr)
Chesapeake Bay PRP (Appendix D)	\checkmark	271,104			
Impaired Waters PRP (Appendix E)	\checkmark	45,927			
TMDL Plan (Appendix F)	 Image: A set of the set of the	271,104			

Type of Plan	Select	TSS Load Reductior (Ibs/yr)	n TP Load Reduction (Ibs/yr)	TN Load Reduction (Ibs/yr)
Combined Chesapeake Bay / Impaired Waters PRP	~	271,104		
Combined PRP / TMDL Plan	 ✓ 	271,104		
3. Date Final Report Demonstrating Achi	evement of Po	Ilutant Load Reductions I	Due:	09/30/2025
4. Have any modifications to the plan(s) o	occurred since	DEP approval?	Νο	
 If <u>Yes</u> to #4, was the updated plan(s) 	submitted to I	DEP?		
 If <u>Yes</u> to #4, did you comply with the applicable appendix? 	public particip	pation requirements of th	e	
• If <u>Yes</u> to #4, describe the plan modifi	cations.			
 Summary of progress achieved during CRW continued to implement street Joint PRP Supplement. Anticipated activities for next reporting CRW will continue to implement str 	s sweeping, G g period.	5I, CSS optimization, and		
attached Joint PRP Supplement.	eet sweeping	, 05, C55 Optimization, e		
JPRP Sediment Reduction for all thr above is 271,104 lbs/yr.	ee participant	ts is 1,694,398 lbs/yr. The	16% share portion for Capital I	Region Water as reported
PRP/TMDL Plan Attachments:				
File Name	Document T	уре	Short Description	
Joint_PRP_Supplement_2024_Fin al_REV1.pdf	PRP Update/	Revision	JPRP Supplemental Info	
BMPs For PRP/TMDL Plan Impleme	ntation Mod	ule Tables		^
New BMPs For PRP/TMDL Plan Implem	nentation Tab	le		
Table 2. List all new structural BMPs instaused toward achieving load reductions in				ting period that are being

If you are a member of a regional PRP, report only those BMPs implemented within your municipal boundary. If you are reporting a joint BMP in which credit is shared with another permittee(s), report only your portion of the BMP credit.

Note: Any new BMP data entered will be prepopulated in the next reporting year.

BMP BMP Name No.		Date Installed	Annual Sediment Load Reduction (Ibs/year)	Satisfactory	Active	Lattitude	Longitude	Drain Area	
	Other	08/01/2020	1,920	~	Yes	40.269722	-76.875556	2556	
% Im	pervious:	BMP Extent:		Units:		BMP in	Planning Area:		
61		2556		Acres		Yes			
Bmp 102:	Completed for Chapter	Collaborative BMI	D:	Retrofit:		Date of	Latest Inspecti	on:	
No		Yes		Νο		09/29/2	2024		
List N	1S4 Collaborators:			Description:					
	Rehab/Optimize - Capital Re Iship, Susquehanna Townsh		r Paxton	Combined Sewer	Rehab & (Optimization			
1	Street Sweeping - Default (25 passes/yr)	08/01/2020	4,778	~	Yes	40.269722	-76.875556		
% Im	pervious:	BMP Extent:		Units:		BMP in	Planning Area:		
		166		Acres		Yes			
Bmp 102:	Completed for Chapter	Collaborative BM	D <u>:</u>	Retrofit:		Date of	Latest Inspecti	on:	
No		Yes		Νο		08/30/2	2024		
List N	154 Collaborators:			Description:					
	tal Region Water, Lower Pax nship	kton Township, Su	squehanna						
;	Stream Restoration - Default Rate	10/15/2021	22,135	~	Yes	40.28929	-76.84123		
% Im	pervious:	BMP Extent:		Units:		BMP in	Planning Area:		
		121.6		Acres		Yes			
						Date of Latest Inspection:			
Bmp 102:	Completed for Chapter	Collaborative BMI	D <u>:</u>	Retrofit:		Date of	Lacost mopoot.		
	Completed for Chapter	Collaborative BMI	D:	Retrofit: No		08/05/2			
102: No	Completed for Chapter 154 Collaborators:		5:						
102: No List N Pine		Yes N Water, Lower Pax		Νο					

BMP No.	BMP Name	Date Installed	Annual Sediment Load Reduction (Ibs/year)	Satisfactory	Active	Lattitude	Longitude	Drain Area
% Im	pervious:	BMP Extent:		Units:		BMP in	Planning Area:	
		108.8		Acres		Yes		
Bmp 102:	Completed for Chapter	Collaborative BMI	D:	Retrofit:		Date of	Latest Inspectio	on:
No		Yes		Νο		08/05/2	2024	
List N	1S4 Collaborators:			Description:				
	t Mill/Walker Rd - Capital Re nship, Susquehanna Townsh		er Paxton					
5	Bioretention - Raingarden (C/D soils w/ underdrain)	י 11/01/2018	15	~	Yes	40.251765	-76.856778	7.5
% Im	pervious:	BMP Extent:		Units:		BMP in	Planning Area:	
35				Acres		Yes		
Bmp 102:	Completed for Chapter	Collaborative BMI	D:	Retrofit:		Date of	Latest Inspectio	on:
No		Yes		Νο		08/30/2	2024	
List N	IS4 Collaborators:			Description:				
	ery Heights - Capital Region nship, Susquehanna Townsh		kton					
÷	Stream Restoration - Default Rate	01/20/2022	87,040	~	Yes	40.29292	-76.86083	
% Im	pervious:	BMP Extent:		Units:		BMP in	Planning Area:	
		102.4		Acres		Yes		
Bmp	Completed for Chapter	Collaborative BMI	D:	Retrofit:		Date of	Latest Inspectio	on:
102:		Yes		Νο		08/05/2	2024	
102: No								
No	1S4 Collaborators:			Description:				
No List N Vete	/IS4 Collaborators: rans Park - Capital Region V rship, Susquehanna Townsh		on	Description:				

BMP BMP Name No.	Date Installed	Annual Sediment Load Reduction (Ibs/year)	Satisfactory	Active	Lattitude	Longitude	Drain Area
% Impervious:	BMP Extent:		Units:		BMP ir	n Planning Area	:
	1510		Feet		Yes		
Bmp Completed for Chapter 102:	Collaborative BM	P:	Retrofit:		Date of	f Latest Inspect	ion:
Νο	Yes		Νο		05/13/2	2024	
List MS4 Collaborators:			Description:				
Stonebridge Apts - Capital Reg	gion Water. Lower P	Paxton	·				
Township, Susquehanna Town							
BMP Inventory For PRP/TMDL Pla	an Implementation	Table					
Table 3. All existing structural BMP eductions in the permittee's PRP a		talled in prior re	porting periods and	are eligibl	e to use towar	rd achieving loa	ıd
BMP BMP Name No.	Date Installed	Annual Sediment Load Reduction (Ibs/year)	Satisfactory	Active	Lattitude	Longitude	Drain Area
		No data ava	ilable in table				
Certification 📀							^
1 Login to GreenPort and g	o to launch the MS4	Annual Report	ting System.				
2 Review this MS4 Report.							
3 Sign the Report.							
After the report is signed by all r	esponsible officials,	, you will be ab	le to submit the rep	oort.			
For PAG-13 Permittees: I have read be eligible for coverage under the F ncluding any modifications thereto or an individual permit within 90 c comply with the General Permit rea egulations.	PAG-13 General Perm b. I understand that i lays of publication of	it and (2) the pe f I do not agree the General Pe	ermittee will continue to the terms and co rmit. I also acknowle	e to comp nditions of dge that a	ly with the con f the PAG-13 G any facility con	nditions of that eneral Permit, I struction need	permit, will apply ed to
For All Permittees: I certify under p ystem designed to assure that qua person or persons who manage the s, to the best of my knowledge and nformation, including the possibili alsification).	alified personnel proje system, or those pe belief, true, accurat	perly gathered a ersons directly re e, and complete	and evaluated the in esponsible for gather e. I am aware that the	formation ring the in ere are sig	submitted. Ba formation, the nificant penal	ased on my inque e information su ties for submitt	uiry of the ubmitted
CAPITAL REG WATER - Signatur	e						
Name of Responsible Official:			Signature:				
			\bigcirc	ument			

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Public Outreach & Education Reporting Period 08/01/2023 – 07/31/2024 September 2024

Publication & Distribution of Stormwater Education Information:

Bill inserts & e-newsletters:

- October 2023, included information regarding proper leaf collection and ways to keep debris out of the sewer system; included details on internal street sweeping maintenance.
- December 2023, included educational information on Fats, Oils, and Grease (FOG), and provided customer guidance for proper disposal.
- December 7, 2023, contributed to a paid advertisement, along with other Dauphin County partners, in the Patriot News specific to MS4 pollution prevention and FOG.
- March 2024, included information and invitation to sign up for CSO alerts via Everbridge. Combined Sewer Overflow Updates will alert customers when and where there is an overflow event into the Susquehanna River or Paxton Creek.
- April 2024, included information regarding the publication of two documents related to CRW's agreement with DOJ, USEPA & PADEP on the Modification to the Partial Consent Decree. Also included invitation to an April Public Feedback Session
- May 2024, included invitation to a Public Feedback Session/Stormwater Carnival held in May.
- June 2024, included education on the combined sewer system and referenced the recommended plan updates to achieve clean water goals in both the Susquehanna River and Paxton Creek.

Social media:

- August 1-4, 2023, CRW Stormwater Week; educational, social campaign about the combined and separate sewer system, GSI, and opportunity to provide public feedback.
- October 17, 2023, Front Street Interceptor Open House coverage; plus education on the importance of this interceptor in the system.
- December 6, 2023, Lt. Gov. Austin Davis visits Boys and Girls Club because of Stormwater Features; discusses infrastructure investment through PENNVEST.
- January 9, 2024, Upcoming storm forecast and stormwater mitigation techniques for residents.
- January 23, 26, & 31, 2024, Emergency Alert campaign to gain subscribers for the CSO Alert feature.
- April 2, 2024, Flood mitigation tips and information about storm season and the importance of clearing debris and leaves from storm drains.
- April 22, 2024, Earth Day post dedicated to the progress of the City Beautiful H2O Program since 2015.
- April 24, 2024, Invitation to our first of four public feedback sessions dedicated to the Alternatives Analysis and Financial Capabilities Assessment (revised City Beautiful H2O Program Plan).



Public Outreach & Education Reporting Period 08/01/2023 – 07/31/2024 September 2024

- May 13, 28, and 30, 2024, Announcement and invitation to CRW Sponsored Stormwater Carnival/MS4 Event.
- July 15-19, 2024, CRW Sponsored Stormwater Week.
- July 22, 2024, Stormwater Infrastructure Tour for residents and community. Participants had the opportunity to tour GSI throughout the city and learn more about the CBH2O program plan updates.

Earned media:

- November 2, 2023, "<u>Community Comment: Capital Region Water marks 10 years of infrastructure, community improvements TheBurg (theburgnews.com</u>)" Theburgnews.com
- December 5, 2023,
 - "Lt. Gov. Davis pushes for cleaner drinking water | WHP (local21news.com)" CBS 21
 - "<u>Lt. Gov. Davis highlights \$17.5M Harrisburg stormwater infrastructure project –</u> <u>Pennsylvania Capital-Star (penncapital-star.com)</u>" -Pennsylvania Capital-Star
 - "<u>Raw sewage is flowing into the Susquehanna, but this Harrisburg project will help</u> <u>stop that - pennlive.com</u>" – PennLive
- May 20, 20024, Sen. Casey Event: Paxton Creek Rehab Project & Grant Funding
 - Paxton Creek rehabilitation project receives federal funding to help reduce flooding - TheBurg (theburgnews.com)
 - \$1.25M in grants target Harrisburg's Paxton Creek flooding problem | StateImpact Pennsylvania (npr.org)
 - Federal funding will help advance plan to restore Paxton Creek (wgal.com)
 - Senator Casey proposes federally-funded project to fix Paxton Creek flooding issues (local21news.com)
 - Federal funding for Paxton Creek redesign will help replace sewer line, reduce flooding pennlive.com

Website link: <u>https://capitalregionwater.com/what-we-do/cbh2o/</u>

Outreach & Events, including Community Partnerships:

Community events:

- August 15, 2023, community litter cleanup with Midtown Action Council
- August 26, 2023, community litter cleanup with Harrisburg Young Professionals
- September 15, 2023, community litter cleanup with Giant Company
- January 15, 2024, Martin Luther King Day of Service community litter cleanup with Friends of Midtown neighborhood group



Public Outreach & Education Reporting Period 08/01/2023 – 07/31/2024 September 2024

- April 13, 2024, community partner litter cleanup with Hot Spot Saturdays, a litter clean up and educational event led by Harrisburg City Councilman Ralph Rodriguez
- April 20, 2024, Great Harrisburg Litter Cleanup, community litter cleanup with Tri-county Community Action
- May 17, 2024, community litter cleanup with the Giant Company
- June 29, 2024, community partner litter cleanup with Hot Spot Saturdays, a litter clean up and educational event led by Harrisburg City Councilman Ralph Rodriguez

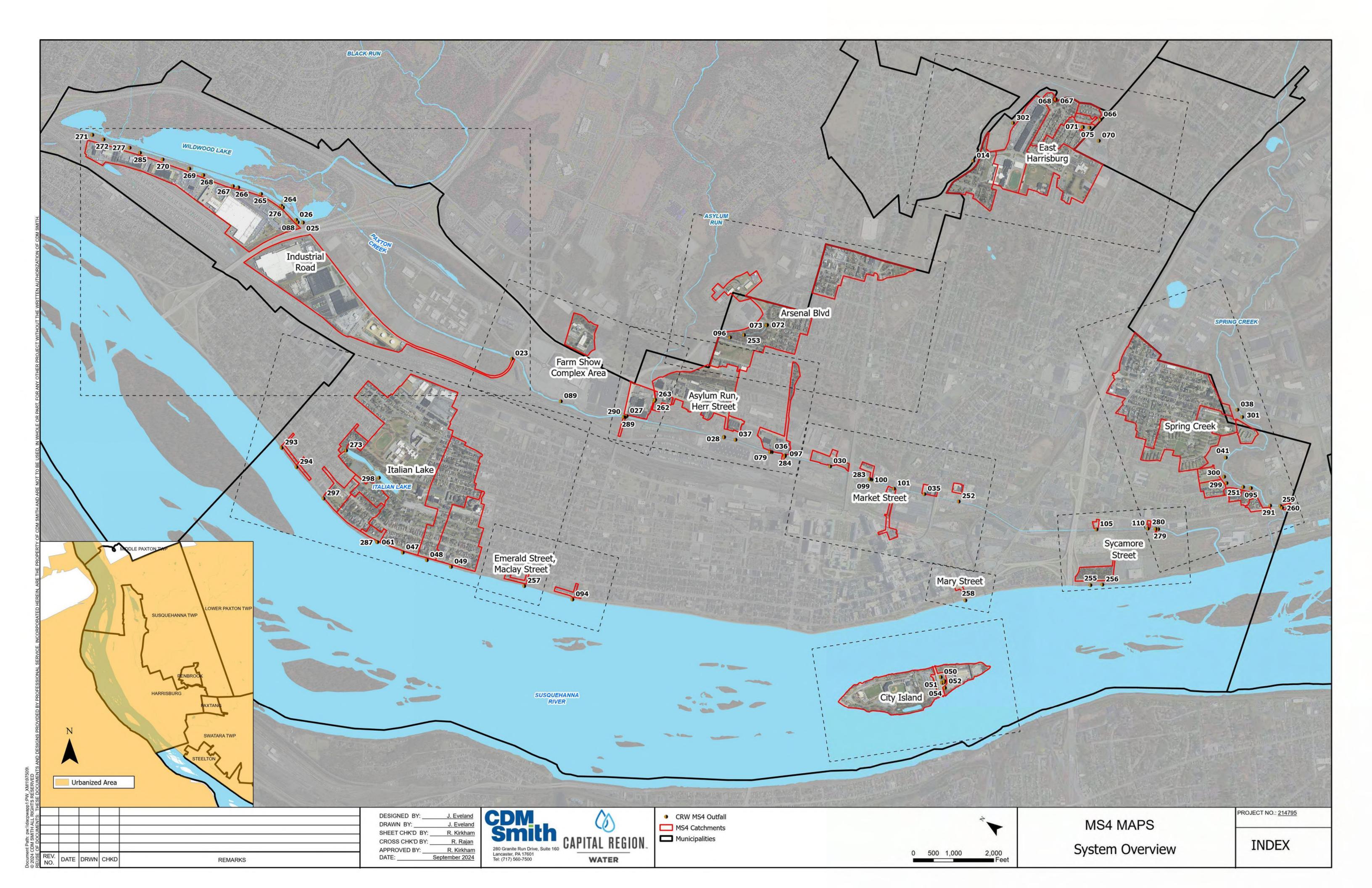
Community meetings/partnerships:

- August 1, 2023, Community National Night Out; information provided included educational material on pollution prevention (Fats, Oils, and Grease), CSOs, and stormwater education.
- September 16, 2023, 13th Annual LHACC Hispanic Heritage Festival; provided educational information and activities on pollution prevention (Fats, Oils, and Grease), stormwater and green infrastructure education to residents and event attendees.
- October 12, 2023, Front Street Pump Station Open House; information provided included stormwater project overview, CSOs, facility tour, and future project goals.
- October 18, 2023, Community Ambassador meeting specific to CRW green stormwater infrastructure, ongoing and upcoming green stormwater infrastructure projects.
- November 15, 2023, Facility tour with Department of Environmental Protection where stormwater management, partial consent decree, and CSO information were agenda/discussion topics.
- January 9, 2024, Paxton Creek Watershed and Education Association presentation; information on CSOs, CBH2O Program, and Adopt-a-Raingarden program.
- April 20, 2024, City of Harrisburg Earth Day Festival, an educational event hosted by the City of Harrisburg Parks and Recreation; information provided included educational material on pollution prevention (Fats, Oils, and Grease), CSOs, and CRW green stormwater infrastructure.
- April 24, 2024, City Beautiful H2O Public Feedback Session; dedicated to the Alternatives Analysis and Financial Capabilities Assessment.
- May 13, 2024, Community Council meeting; provided information on ongoing and upcoming CRW CBH2O program plan, and to encourage public feedback.
- May 15, 2024, Community Ambassador meeting; featuring a presentation on CBH20 program plan updates, including Alternatives Analysis and Financial Capabilities Assessment.
- May 30, 2024, CRW CBH2O Stormwater Carnival; featuring engaging information stations, exploration of the MS4 and permit, activities/games related to CBH2O program plan updates, including an Alternatives Analysis and Financial Capabilities information.
- June 17, 2024, Friends of Midtown meeting; presentation on CBH2O program plan updates, including Alternatives Analysis and Financial Capabilities Assessment.



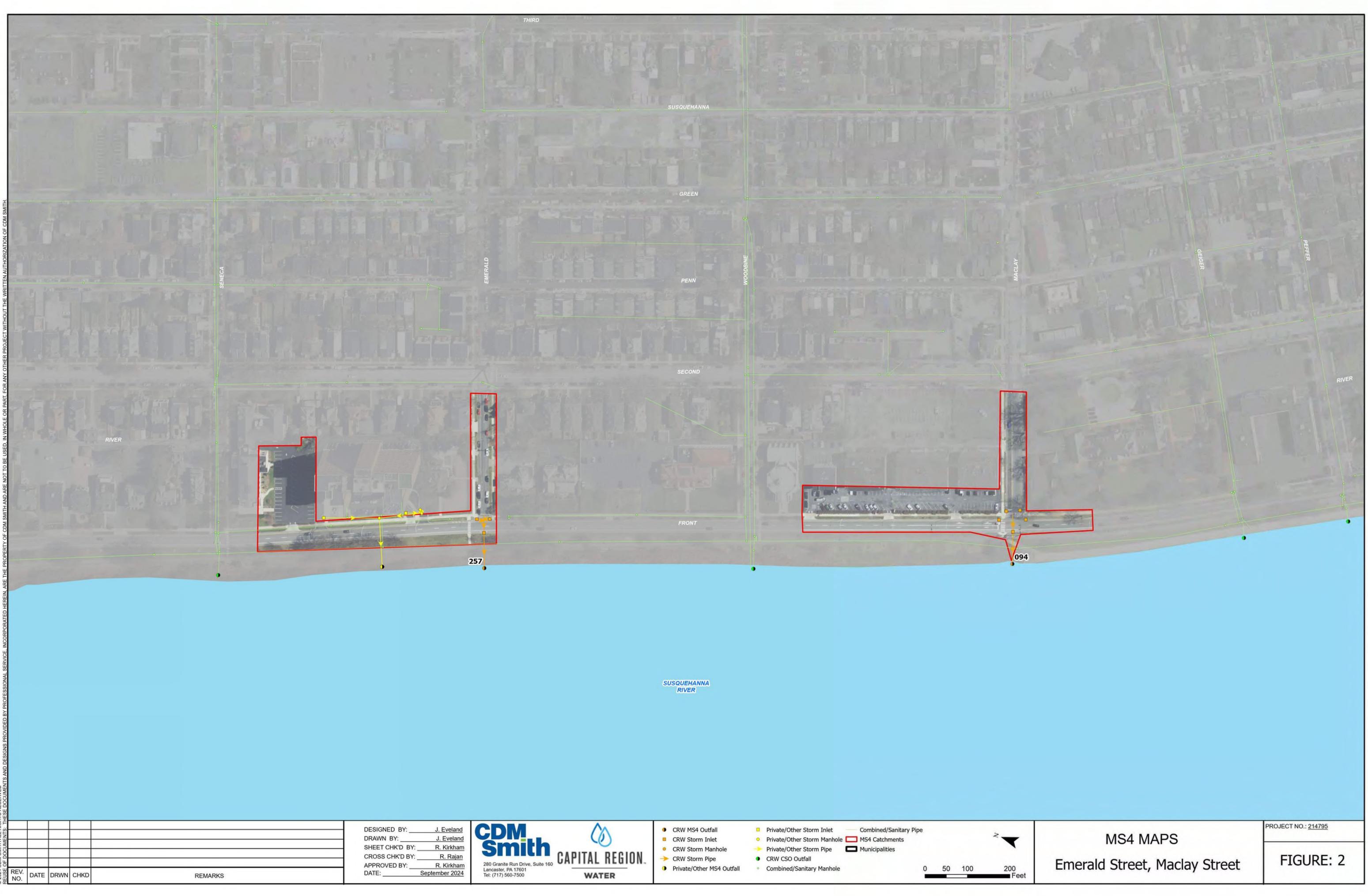
Public Outreach & Education Reporting Period 08/01/2023 – 07/31/2024 September 2024

- June 20, 2024, Shipoke Neighborhood Association meeting; presentation on CBH2O program plan updates, including Alternatives Analysis and Financial Capabilities Assessment.
- July 16, 2024, South Allison Hill Neighborhood Association meeting; presentation on CBH2O program plan updates, including Alternatives Analysis and Financial Capabilities Assessment.
- July 19, 2024, CRW Stormwater Week SCM Tour & Zeroday Event; event participants toured various CRW green stormwater infrastructure locations, CRW staff presented information to event participants on CBH2O program plan updates and encouraged public feedback.
- July 26, 2024, CRW Green Stormwater Infrastructure tour with Harrisburg City Council and CRW Board members where stormwater management, partial consent decree, and CSO information were agenda/discussion topics.
- July 29, 2024, CRW Green Stormwater Infrastructure tour with the Department of Environmental Protection where stormwater management, partial consent decree, and CSO information were agenda/discussion topics.



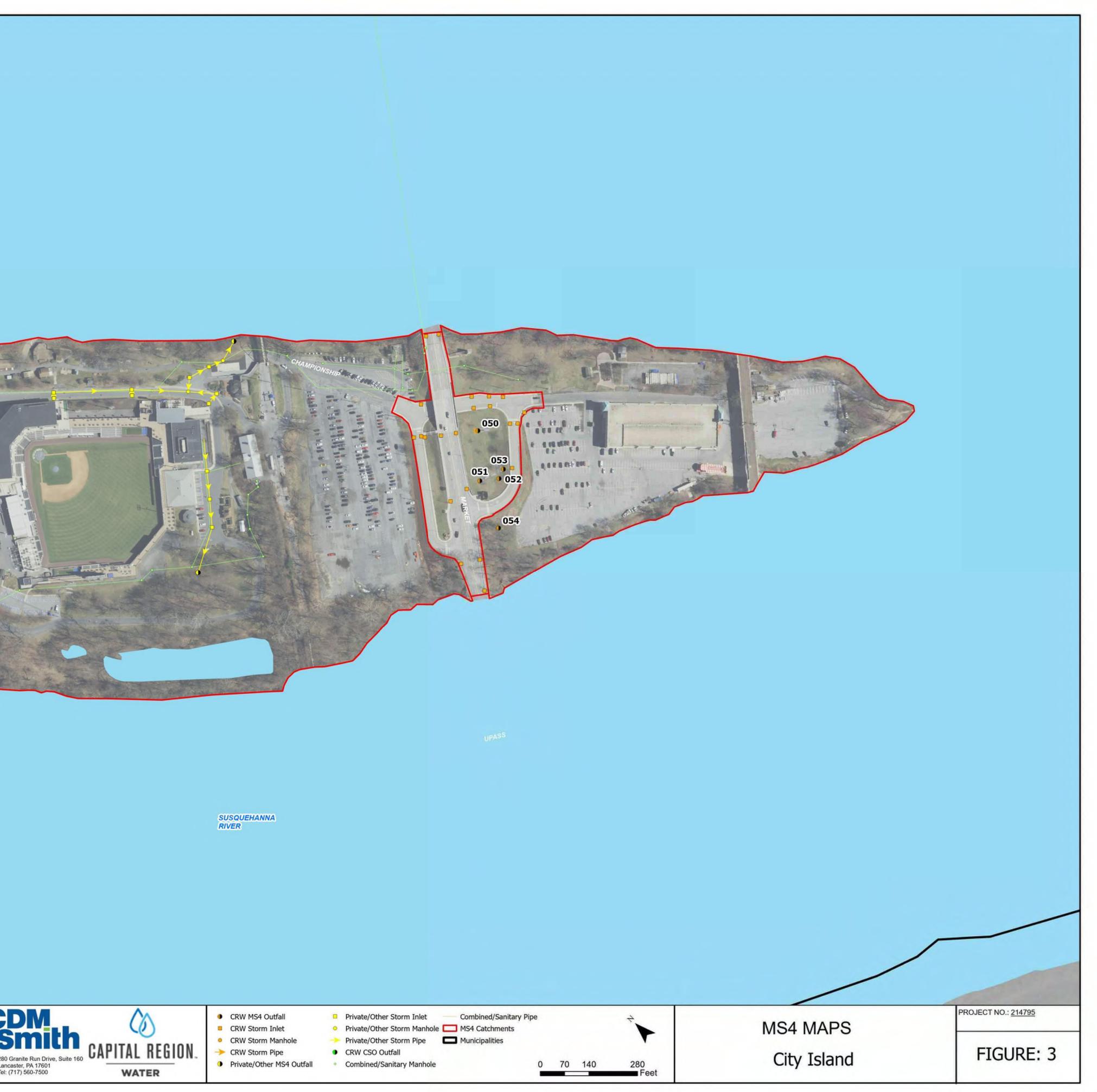


	PROJECT NO.: 214795	
MS4 MAPS	FIGURE: 1	
Italian Lake	I IGURE. I	



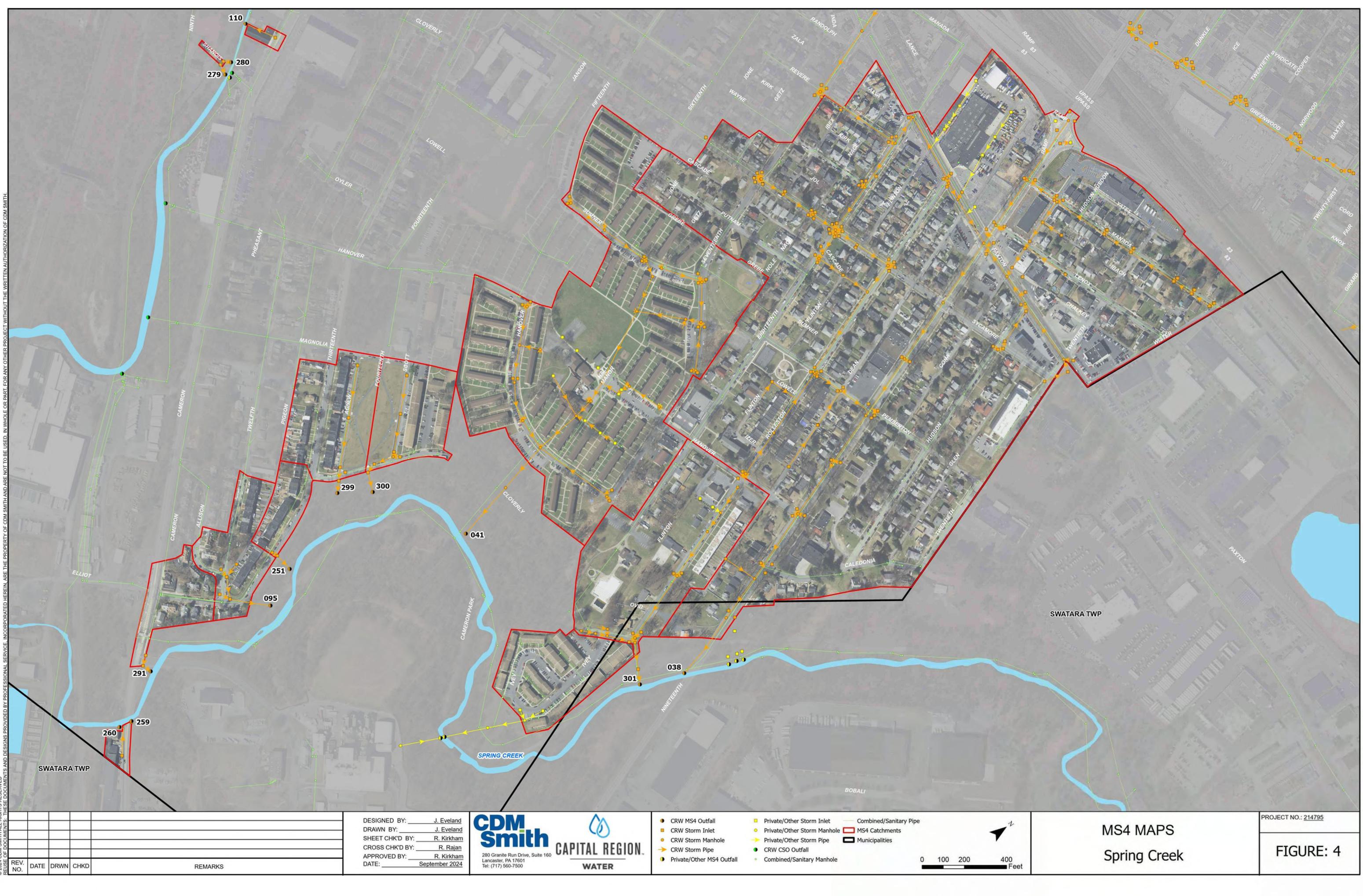


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OCUMENTS: THESE						DESIGNED BY: <u>J. Eveland</u> DRAWN BY: <u>J. Eveland</u> SHEET CHK'D BY: <u>R. Kirkham</u> CROSS CHK'D BY: R. Rajan
REUSE OF DV	REV. NO.	DATE	DRWN	СНКД	REMARKS	CROSS CHK'D BY: <u>R. Rajan</u> APPROVED BY: <u>R. Kirkham</u> DATE: <u>September 2024</u> Tel: (

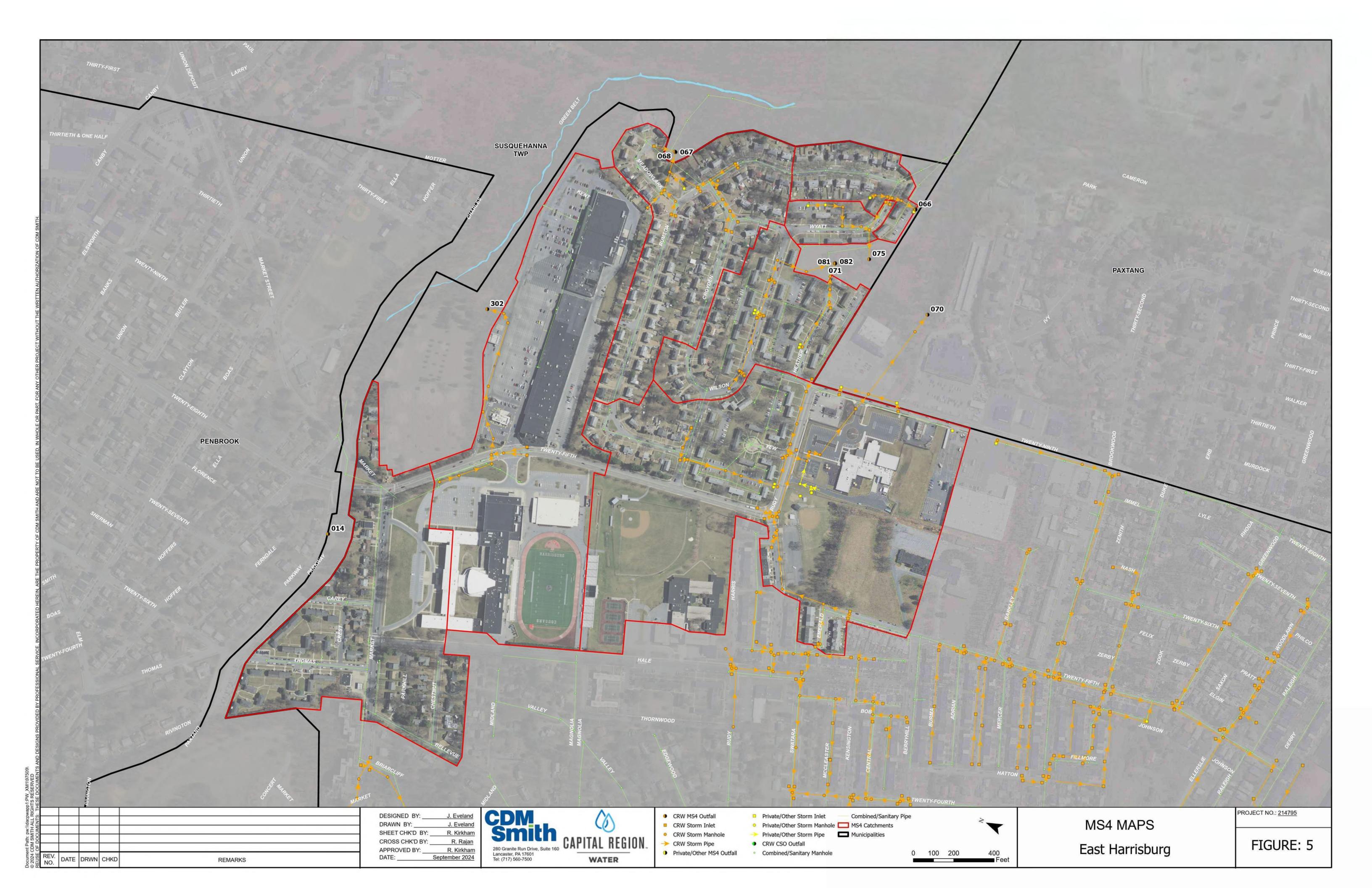


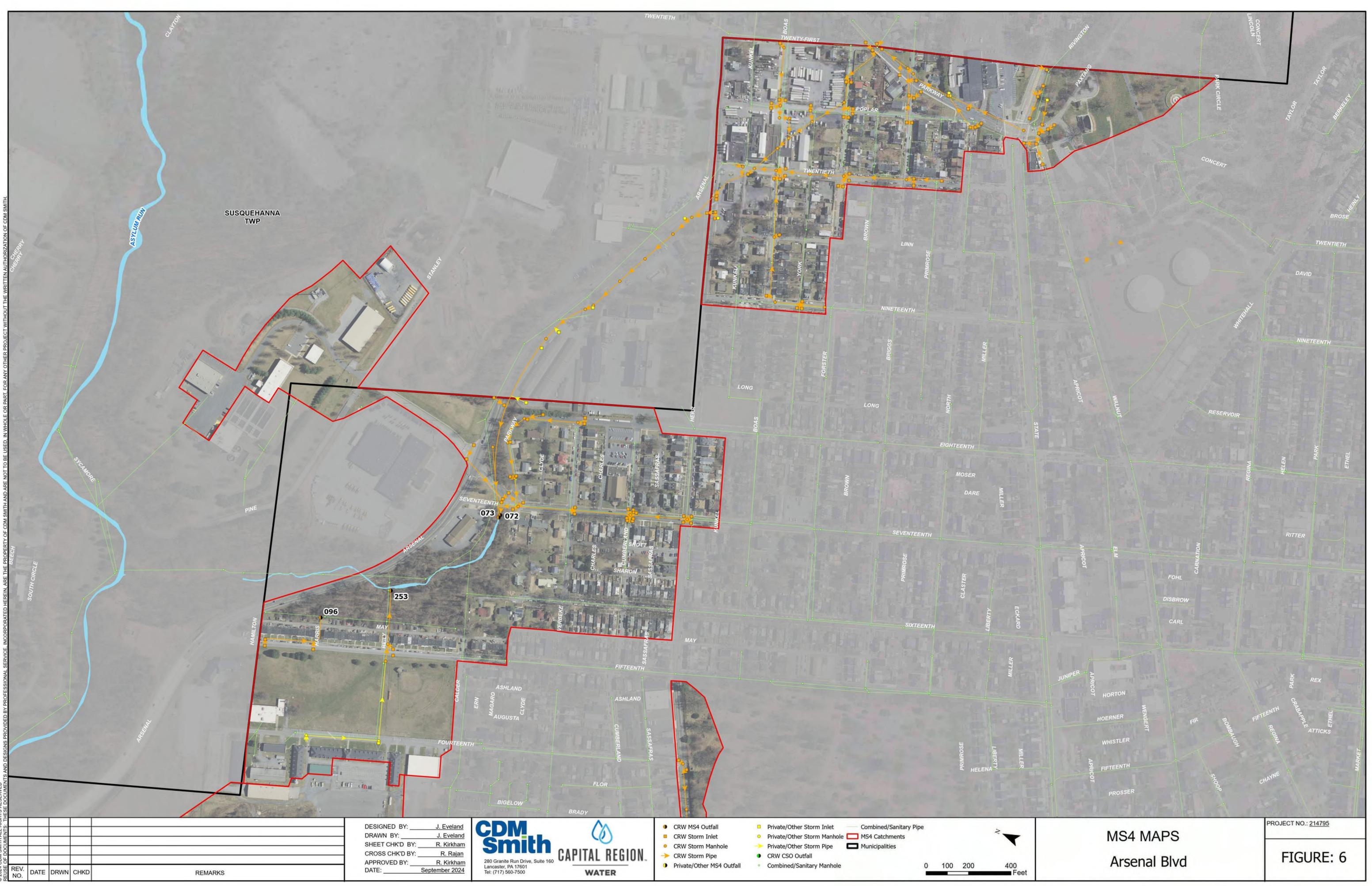




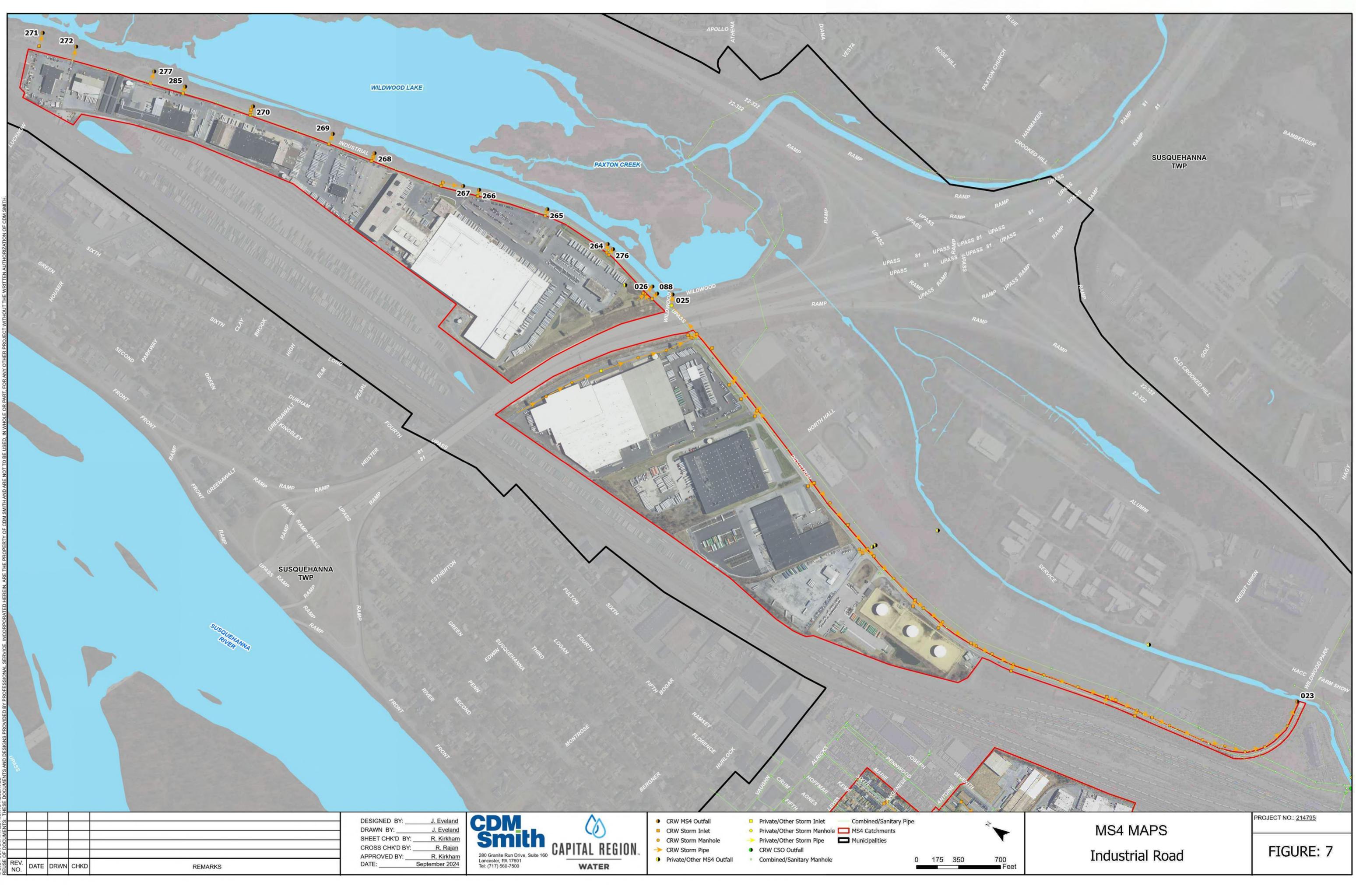


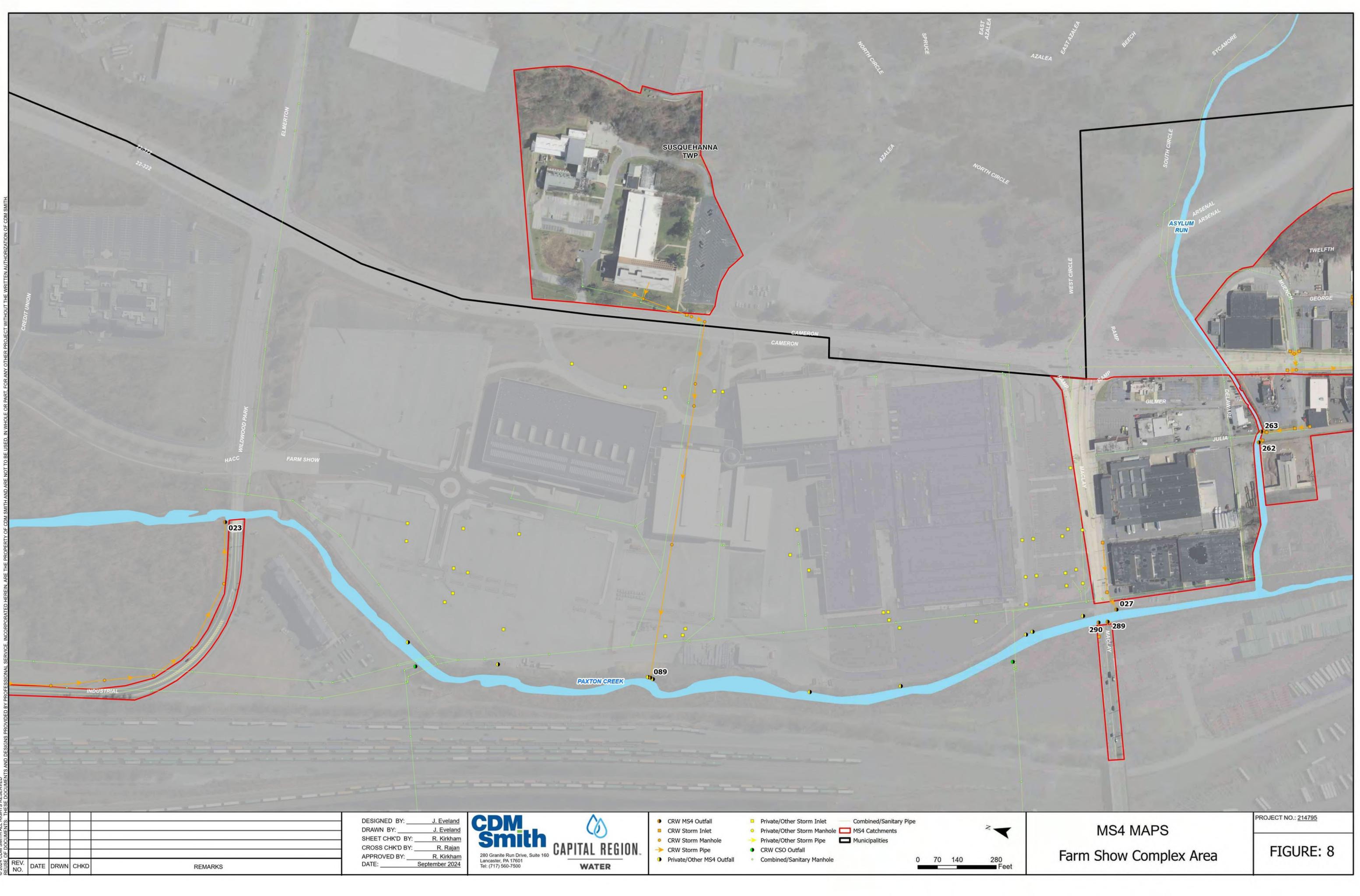
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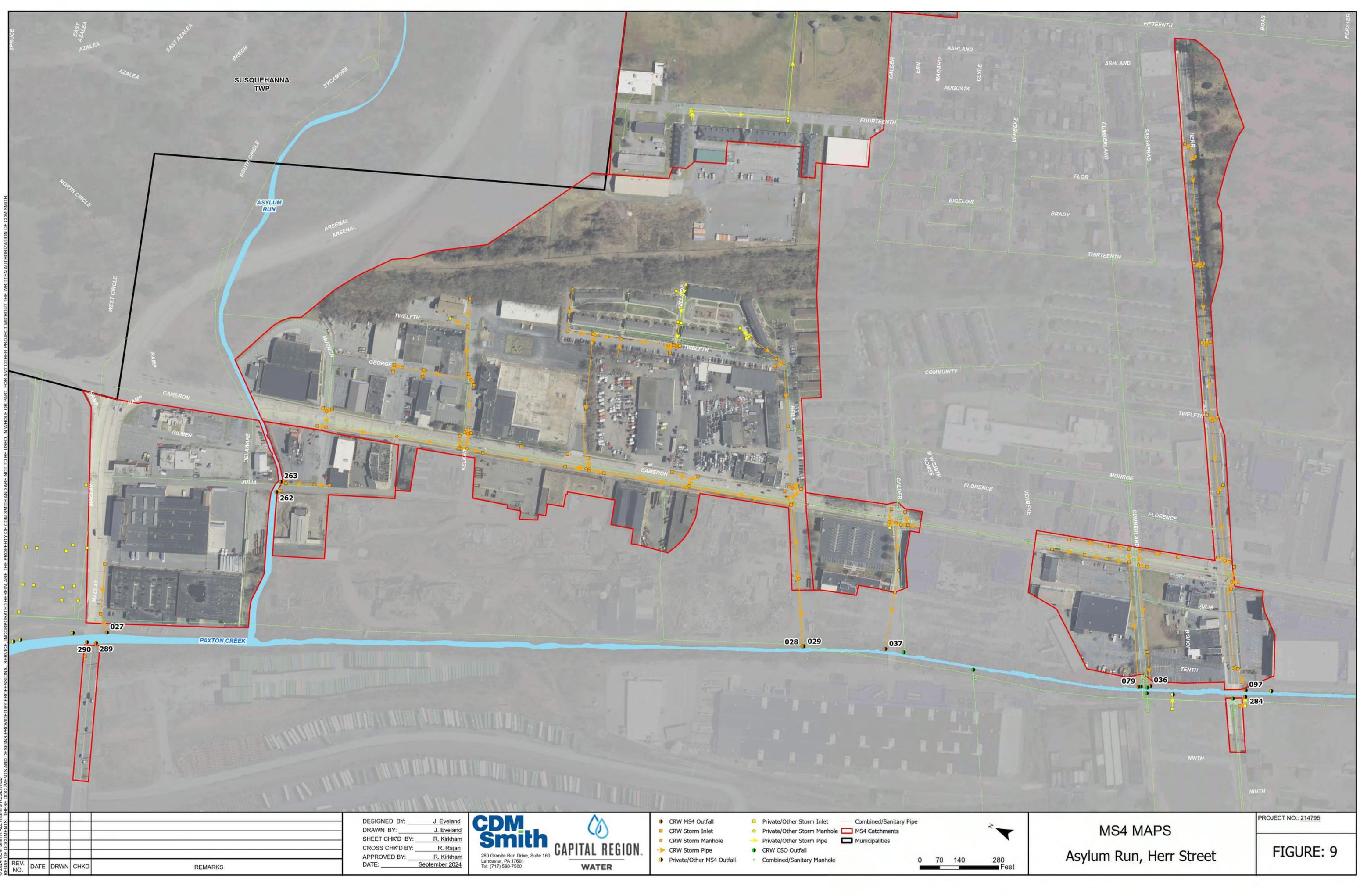


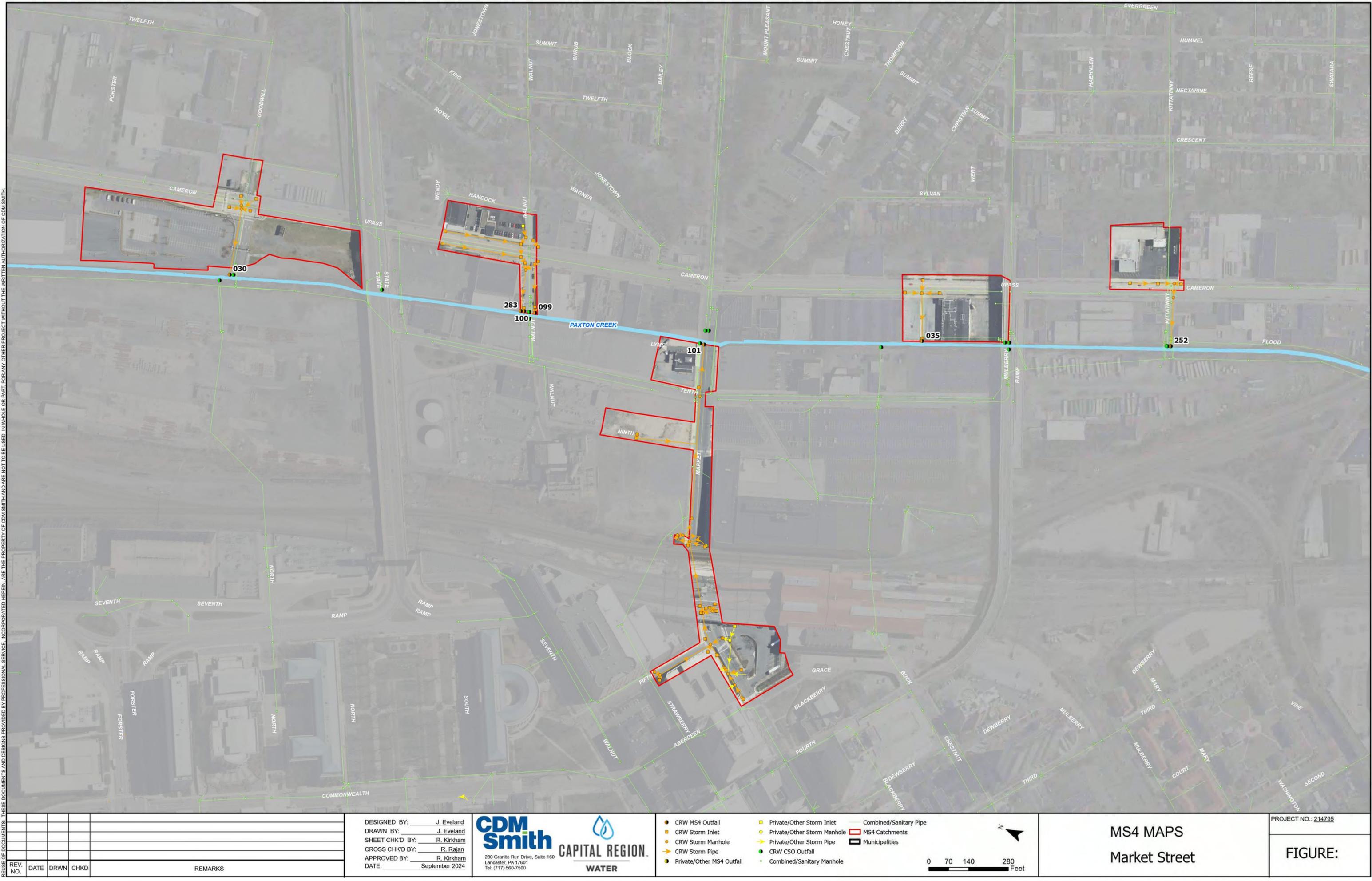


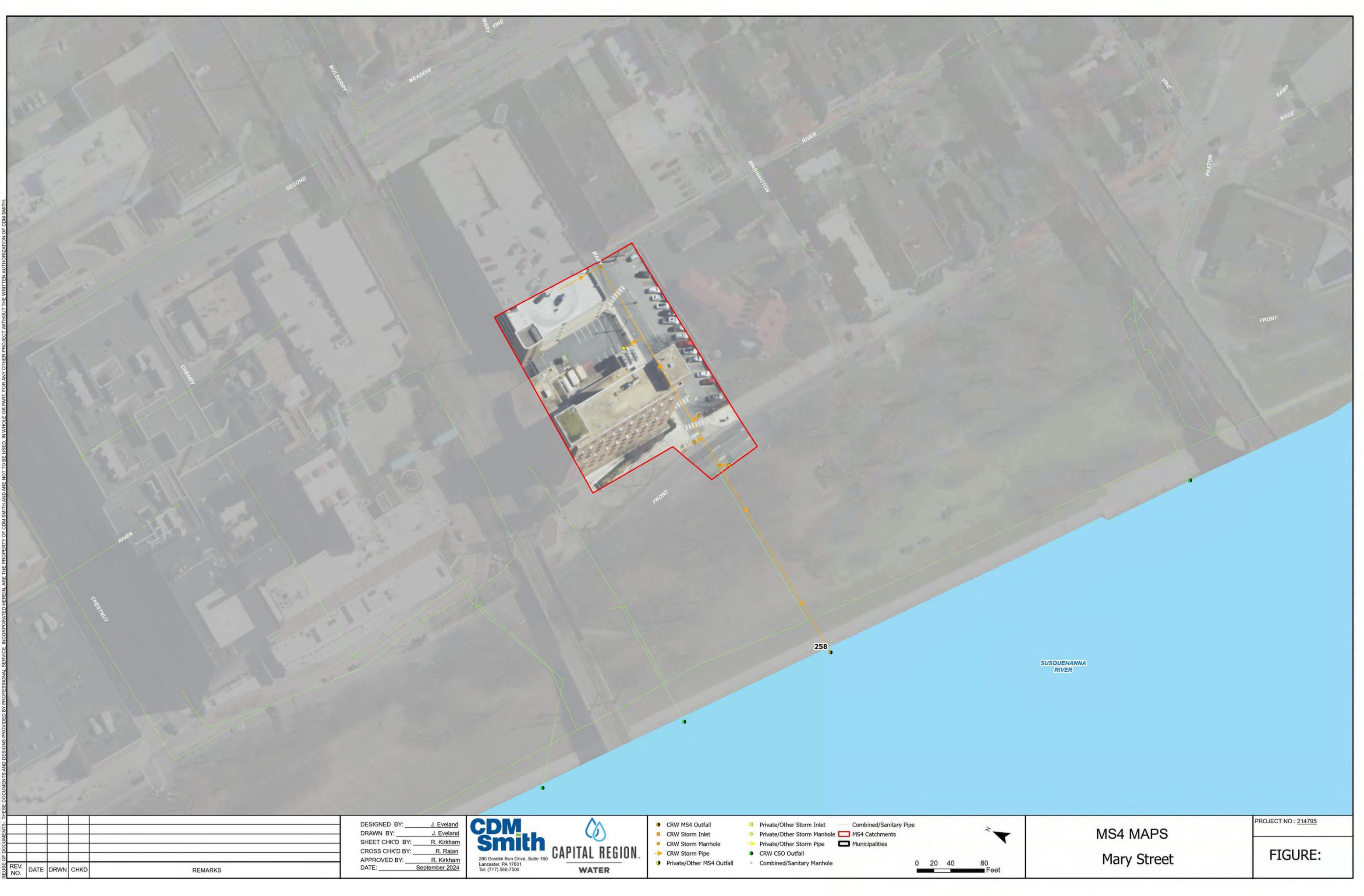
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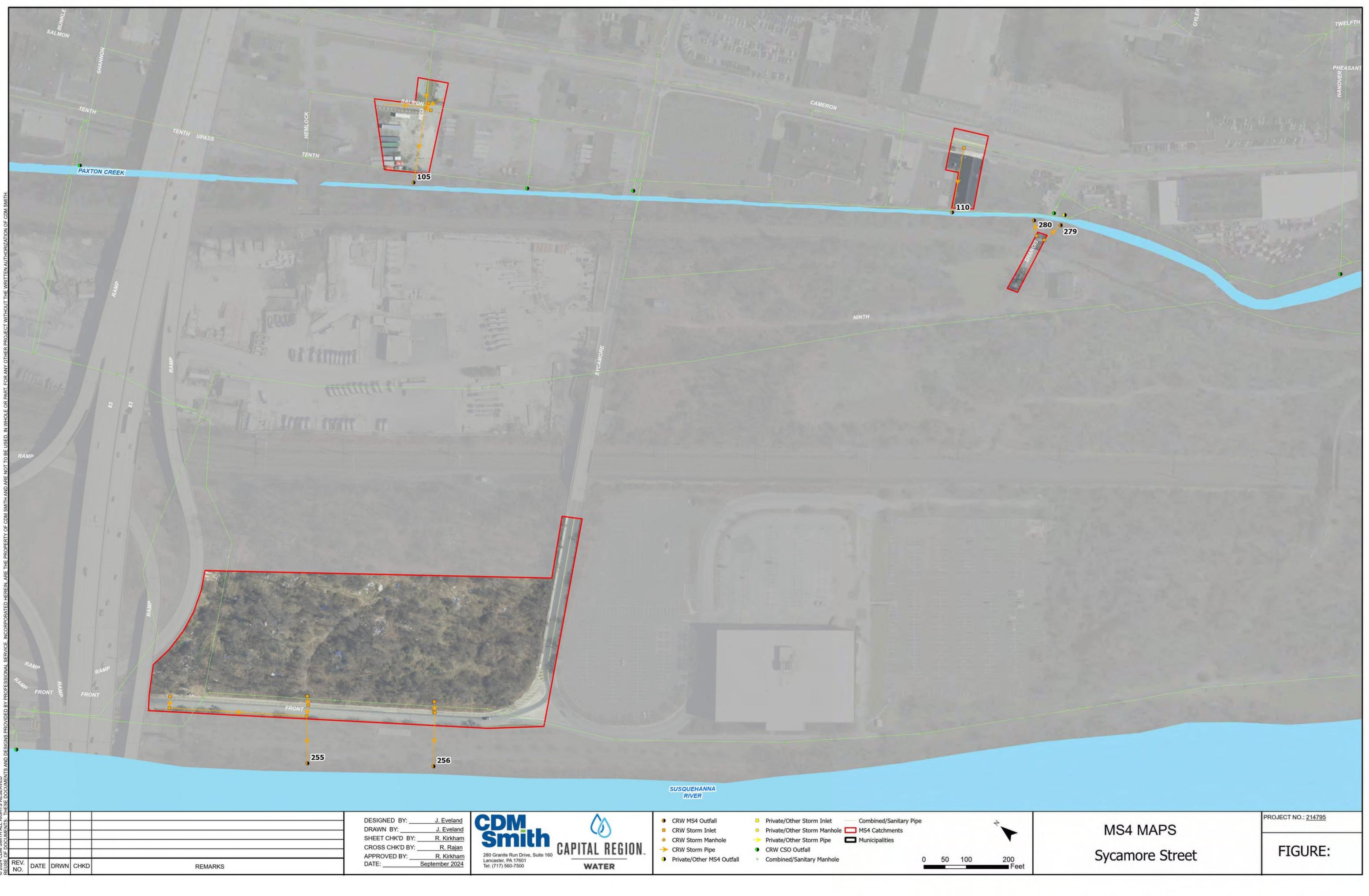












Joint PRP Supplement

Baseline Sediment Loads

Baseline pollutant loads for the Joint Planning Area are summarized in **Table 1** (Table 7 of the 2019 Joint Pollutant Reduction Plan¹).

MS4 Permittee	Percentage of Watershed	
CRW (City of Harrisburg)	16%	3,667,006
Township of Lower Paxton	57%	9,324,542
Township of Susquehanna	27%	4,141,959
Joint Planning Area Total:	100%	17,507,254*

Table 1. Municipal Baseline Pollutant Loading for the Joint Planning Area.

The baseline sediment load for the CRW combined sewer system service area is summarized in **Table 2** (Table 10 of the 2019 Joint Pollutant Reduction Plan). This load reduction is comprised of a land-based sediment load (load in CSO discharge from outfalls to receiving waters) and a streambank erosion sediment load (sediment mobilized and transported downstream due to erosive wet weather velocities).

Table 2. Summary of CRW/City of Harrisburg Paxton Creek Corrected Sediment Loads from the Combined Sewer System.

Scenario	Land-Based Sediment Load (ton/yr)	Streambank Erosion Sediment Load (ton/yr)	Total CSS Sediment Load (ton/yr)	Total CSS Sediment Load (Ib/yr)	Reduction from Existing
Sediment Load Reported in 2008 TMDL	18	364	382	764,000	-
Corrected Sediment Load from Existing Combined Sewer System	16	332	348	696,000	5%

¹ Joint Pollutant Reduction Plan: Paxton Creek Watershed TMDL, Chesapeake Bay PRP, Wildwood Lake PRP, and UNT Spring Creek PRP, Revised December 27, 2019

"Existing" Loads and Load Reduction Requirements

As documented in the Joint Plan, the "Baseline" load is adjusted to account for projects completed prior to completion of the Joint Plan. The resulting load is the "Existing" load, and the Municipal Entities understand the "Existing" load to be the starting point for load reductions required under the five-year MS4 permit term beginning on August 1, 2020.

Load reduction requirements are summarized in **Table 3** (Table A of the Joint Pollutant Reduction Plan).

Planning Area	Impairment	Existing Sediment Load (Ib/yr)	Required Sediment Load Reduction	Sediment Reduction Required (Ib/yr)
Paxton Creek TMDL	Sediment / Siltation	3,630,159	10%	363,016
Joint Planning Area	Sediment / Nutrients	16,943,984	10%	1,694,398
Wildwood Lake	Sediment / Siltation	2,825,290	10%	282,529
UNT to Spring Creek	Sediment / Siltation	45,137	10%	4,514

Table 3. Short-Term (5-yr) Pollutant Load Reduction Requirements by PRP Planning Area.

"Existing" Projects Used to Adjust Baseline Sediment Loads

As shown in **Table 4**, seven (7) existing stormwater quality projects (EX-01 through EX-07) were completed in the Paxton Creek Watershed prior to the completion of the Joint Plan and are being utilized as credit to reduce the baseline sediment loading estimates for the watershed. Pollutant load reductions associated with CRW's CSS have also been included in the existing load calculations (Joint Pollutant Reduction Plan, p. 24).

Map Reference	BMP Name	Planning Area Credit	Sediment Load Reductior (lbs/yr)*	
EX-01	Paxton Church / Reichert Rd. Rain Garden and Stream Restoration (240 ft.)	Joint Planning Area / Paxton Creek TMDL	40,012	
EX-02	Fox Hunt Rd. Stream Restoration (375 ft.)	Joint Planning Area / Paxton Creek TMDL	43,125	
EX-03	UNT to Asylum Run Retention Basin and Stream Restoration (350 ft.)	Joint Planning Area / Paxton Creek TMDL	72.025	
EX-04	Elmerton Ave. Bio-retention Basin	Joint Planning Area / Paxton Creek TMDL	17,191	
EX-05	Black Run Stream Restoration (800 ft.)	Joint Planning Area / Paxton Creek TMDL	92,000	
EX-06	Asylum Run Bio-retention and Stream Restoration (400 ft.)	Joint Planning Area / Paxton Creek TMDL	73.617	
EX-07	Dowhower Rd Buffer and Stream Restoration (1.220 ft.)	Joint Planning Area	140,300	
CSS-01	CRW Combined Sewer System Sediment Capture Performance to Paxton Creek Watershed Allowance	Joint Planning Area / Paxton Creek TMDL	68,000	
C\$5-02	CRW Combined Sewer System Sediment Capture Performance to Susquehanna River Allowance	Joint Planning Area	17.000	
	Total	Existing BMP Sediment Load Reduction:	563,270	

Table 4. Installed BMPs.

Sediment Load Reduction Status as of August 1, 2024: Additional Background and Calculations

For the current reporting period ending on August 1, 2024, the Municipal Entities are taking credit for projects in the operation phase. Table 8 in the Conclusion section summarizes the status of all projects in the design, construction, and operation phases. When completed and in operation, these projects are projected to achieve approximately 101% of the load reduction required by the end of the current permit term. The remainder of this section provides background information on projects that are completed and in operation.

BMP15: Street Sweeping

CRW is performing street sweeping a minimum of 25 times per year as required by PADEP guidelines. As described in the Joint Pollutant Reduction Plan (**Table 5**), the annual sediment load reduction credit applied is 29,864 lb/yr.

BMP #	# Early Action BMP Name Project		Managed Area (Acre)	Reduction (Ibs)
BMP-15	EAP-9	CRW Street Sweeping (25 times per year)	166.0	29,864
			Totals:	29,864

Table 5. Proposed Street Sweeping Reduction Credit.

BMP16: Combined Sewer System Rehabilitation and Optimization

Sediment removed by the CRW combined sewer system (CSS) is the sum of three components.

- First, sediment is removed by processes within green stormwater infrastructure such as settling and filtration. Stormwater released from green stormwater infrastructure is expected to have a lower sediment concentration than untreated stormwater prior to entering the combined sewer system.
- Second, sediment is captured by the combined sewer system and conveyed to CRW's Advanced Wastewater Treatment Facility. Reduction in the volume of combined sewer overflow is expected to proportionally reduce "land based" sediment load reaching the receiving water.
- Third, instream sediment mobilization in Paxton Creek is reduced as CSO flows and velocities reduce erosive forces on the stream channel.

Summary of CSS Improvements and CSO Control Benefits

CSS improvements implemented and operating as of August 1, 2024 consist primarily of early action GSI projects. Other improvements include the Front Street Pump Station upgrade, however sediment reductions (via increased capture) from this project will not be fully realized until CSO regulator modifications are complete (which cannot be fully completed until the interceptors are rehabilitated). Some regulator modifications have been completed (Hemlock Street Interceptor CSO regulators; and some Paxton Creek CSO regulator weirs have been raised to prevent creek intrusion), which has resulted in CSS improvements.

Table 6 is a summary of completed GSI projects within CRW's service area. These projects are located in the CSS service area with the exception of the Cloverly Heights project, which is located in the MS4 service area.

Project Name	Impervious Drainage Area [ac]	Total Storage Volume [cf]
Penn and Sayford	0.34	581
Royal Terrace Playground	0.79	3,190
Summit Terrace	2.64	14,600
3rd & Emerald	0.29	1,150
3rd & Woodbine	0.09	435
3rd & Maclay	0.22	1,150
3rd and Muench	0.42	1,080
3rd and Kelker	0.12	966
3rd and Hamilton	0.06	372
3rd and Harris	0.11	430
3rd and Basin	0.04	25
3rd and Calder	0.18	1,160
3rd and Sayford	0.03	99

Table 6. Summary of Completed CRW GSI Projects.

Project Name	Impervious Drainage Area [ac]	Total Storage Volume [cf]
3rd and Verbeke	0.10	727
3rd and Boas	0.11	487
3rd and Union	0.13	86
3rd and Blackberry	0.12	55
Allison Hill	1.0	5,230
4th and Dauphin	0.75	5,130
Camp Curtin Big Green Block	2.78	14,421
Bellevue Park Pond	16.6	33,772
Boys & Girls Club	0.95	10,366
Midtown	4.4	27,959
Peffer Street Lots	1.8	16,376
Swatara Park	1.9	10,824
CSS SUBTOTAL	36.0	150,700
Cloverly Heights	2.6	15,400
TOTAL	38.7	166,000

Table 6. Summary of Completed CRW GSI Projects.

With the above CSS improvements, the systemwide Typical Year CSO volume is reduced by approximately 23.7 MG per year. The Typical Year represents average annual hydrologic conditions as defined in the Partial Consent Decree between CRW, PADEP, and the USEPA.

As of 2024, CRW is now reporting CSS improvements and corresponding sediment load reductions based on an updated, more detailed version of it calibrated SWMM5 model. The updated model was necessary to comply with requirements set forth in the Modified Partial Consent Decree (MPCD) related to the development of CRW's Long Term Control Plan, and for consistency, CRW has aligned the JPRP reporting with that version of the model. The difference in model versions explains why the reported CSO volume reduction for the 2024 update is less than what was provided for the 2023 update.

Reduction in Sediment Concentration in Green Stormwater Infrastructure Effluent

CRW has updated its calibrated SWMM5 model of the combined sewer service area to represent green stormwater infrastructure facilities operating within CRW's combined sewer service area as of August 1, 2024. Green stormwater infrastructure removes runoff volume and pollutant loads through processes including infiltration to native soil, evaporation, filtration through planting media, and sorption of pollutants to soil particles. Hydraulic controls limiting the rate of effluent flow also reduce combined sewer overflows and streambank erosion occurring downstream.

For modeling purposes, green infrastructure facilities are categorized as one of three broad types – infiltration only, slow release only, and infiltration/slow release. For each facility type and within each model subshed, the SWMM5 model represents the storage volume, infiltration footprint, and

any slow-release hydraulic controls implemented. Model settings are described in more detail below.

- Storage volume and infiltration footprint were based on engineering design information available in CRW's GIS.
- If pre-construction or post-construction infiltration rate data were available, soil hydraulic conductivity assumptions were derived from this data. If no data were available, hydraulic conductivity values from CRW's calibrated SWMM5 rainfall-runoff response model were incorporated in GSI elements on a sewershed basis.
- For sites indicated in CRW's GIS as having slow-release hydraulic controls, design data on orifice size and elevation were incorporated in the model if available. If design data were not available, a 0.5-inch diameter orifice was assumed.

For the Typical Year SWMM5 continuous simulation, during each CSO event, slow-release flows from GSI entering the combined sewer system were determined. The portion of total flow made up of slow release was determined, and slow release from GSI was assumed to represent the same fraction of CSO as it does of total flow. (Example: If slow release from GSI makes up 1% of the flow entering the combined sewer system for a particular event, then slow release from GSI also makes up 1% of CSO volume for that event.) The CSO volumes attributed to GSI slow release for each overflow event are summed to determine the total CSO volume attributed to GSI slow release during the Typical Year. Sediment removal percentages are applied to concentrations in slow-release volumes from GSI facilities based on PADEP's recommended values (**Table 7**).²

	BMP	Effectivenes	s Values	DUD Duracial star		
BMP Name	TN TP Sediment		Sediment	BMP Description		
Infiltration Practices w/ Sand, Veg.	85%	85%	95%	A depression to form an infiltration basin where sediment is trapped and water infiltrates the soil. No underdrains are associated with infiltration basins and trenches, because by definition these systems provide complete infiltration. Design specifications require infiltration basins and trenches to be built in good soil, they are not constructed on poor soils, such as C and D soil types. Engineers are required to test the soil before approval to built is issued. To receive credit over the longer term, jurisdictions must conduct yearly inspections to determine if the basin or trench is still infiltrating runoff.		
Bioretention – Raingarden (C/D soils w/ underdrain)	25%	45%	55%	An excavated pit backfilled with engineered media, topsoil, mulch, and vegetation. These are planting areas installed in shallow basins in which the storm water runoff is temporarily ponded and then treated by filtering through the bed components, and through biological and biochemical reactions within the soil matrix and around the root zones of the plants. This BMP has an underdrain and is in C or D soil.		
Bioretention / Raingarden (A/B soils w/ underdrain)	70%	75%	80%	An excavated pit backfilled with engineered media, topsoil, mulch, and vegetation. These are planting areas installed in shallow basins in which the storm water runof is temporarily ponded and then treated by filtering through the bed components and through biological and biochemical reactions within the soil matrix and around the root zones of the plants. This BMP has an underdrain and is in A or B soil.		
Bioretention / Raingarden (A/B soils w/o underdrain)	80%	85%	90%	An excavated pit backfilled with engineered media, topsoil, mulch, and vegetation. These are planting areas installed in shallow basins in which the storm water runoff is temporarily ponded and then treated by filtering through the bed components, and through biological and biochemical reactions within the soil matrix and around the root zones of the plants. This BMP has no underdrain and is in A or B soil.		

Table 7. BMP Effectiveness Values.

² PADEP. BMP Effectiveness Values. 3800-PM-BCW0100m Rev. 6/2018.

http://www.depgreenport.state.pa.us/elibrary/GetFolder?FolderID=3686. Accessed 9/2/21.

As of August 1, 2024, the estimated sediment load removed due to decreased concentration from GSI slow release in CRW's combined sewered areas is 15 lb/yr. Note that this value represents only the portion of load reduction from CSO outfalls due to decrease in sediment *concentration* in the CSO. The load reduction due to reducing the CSO *volume* is described in the following section.

Land-Based Sediment Load Reductions Due to Combined Sewer Overflow Reduction

This credit represents the sediment load that is captured and conveyed to the AWTF under current (August 1, 2024) conditions compared to the Existing Condition. This reduction is added to the sediment load removed from surface runoff by GSI slow release before the runoff enters the combined sewer system.

As described in the Joint Pollutant Reduction Plan, this load is assumed to be directly proportional to the reduction in CSO volume discharged to the receiving waters in the current (August 1, 2024) conditions compared to the Existing Condition. The calculation employed in production of the Joint Pollutant Reduction Plan has been applied in exactly the same way to calculate the reduction during the reporting period. However, the equation presented in the Joint Pollutant Reduction Plan has been correct units and numerical results.

LBSCAP	LBScs = LBScrw.tot * Acss / Acrw.tot - LBScrw.sor / CSSvol. * CSOvol.
whe	ere: LBS _{CSD}
LBSCAP	LBScss = Reductions in Land-Based Sediment Load from existing CSS operations (lb)
- Chr	LBS _{CRW-TOT} = Total Land-Based Sediment Load from CRW Harrisburg (lb)
	Acss = Area draining to the CRW CSS (acres)
	ACRW-TOT = Total Area in CRW/Harrisburg (acres)
LBS _{CSS}	LBS _{CRW-TOT} = Total Land-Based Sediment Load from CRW/Harrisburg (lbs)
	CSS _{VOL} = Runoff volume from CSS area (gal)
	CSO _{VOL} = CSO volume from existing CSS operation (gal)

Joint Pollutant Reduction Plan: Paxton Creek Watershed TMDL, Chesapeake Bay PRP, Wildwood Lake PRP, and UNT Spring Creek PRP, Revised December 27, 2019; Exhibit 3, Corrected as Noted in Red

Runoff and CSO volumes were calculated based on a typical year simulation of CRW's calibrated SWMM5 model of the combined sewer collection and treatment system. As of August 1, 2024, the estimated land-based sediment load removed by CRW's combined sewer system in the Joint Planning Area is 2,549 lb/yr.

Instream Sediment Load Reductions Due to CSS Operations

This credit represents the reduction in sediment mobilization due to streambank erosion. As described in the approved Joint Pollutant Reduction Plan, the reduction in streambank erosion load is assumed to be directly proportional to the reduction in CSO volume discharged to the receiving water in the current (August 1, 2024) conditions compared to the Existing Condition. The equation described in the Joint Pollutant Reduction Plan has been corrected to produce the correct units and numerical results.

J	oint PRP In-Stream Sediment Load Attributed to CRW CSS
SBScss = S	BScrw-tot - CSSvol. * SBSrate
where:	
SBScss	= Reduction In-Stream Sediment Load from CSS operation (Ib)
SBScrw-to	π = Total In-Stream Sediment Load attributed to CRW/Harrisburg (Ib)
CSSVOL	= Estimated Volume Captured by Existing CRW CSS Operation (gal)
SBSRate	= In-stream erosion rate (lb / gal), from 2015 Paxton Creek TMDL Strategy

Joint Pollutant Reduction Plan: Paxton Creek Watershed TMDL, Chesapeake Bay PRP, Wildwood Lake PRP, and UNT Spring Creek PRP, Revised December 27, 2019; Exhibit 2

As of August 1, 2024, the estimated instream sediment load removed by CRW's combined sewer system in the Joint Planning Area is 9,152 lb/yr.

GSI Projects Outside the Combined Sewer Service Area

Currently, one GSI project (Cloverly Heights) is located within CRW's MS4 area. Calculation of the sediment load in runoff entering this facility is closely based on the methodology originally implemented in Mapsheds and described in the Joint Pollutant Reduction Plan. The sediment load reduction achieved in the facility is calculated using PADEP's recommended sediment removal percentage (55% removal for bioretention with C/D soils). During the Typical Year, approximately 2.85 million gallons of runoff is captured and managed by the Cloverly Heights project, yielding a 91 lb/yr reduction at the MS4 outfall.

Ongoing/Upcoming JPRP Projects

The Paxton Creek Cooperative (PCC) has completed four projects and is in progress with the fifth project within the current permit term reaching towards the group's collective pounds of sediment removal. These projects were previously highlighted in the 2021-2022 Annual Status Report. The fifth project, bid and awarded in June 2022, is now outlined in more detail below.

To briefly recap on the previous projects completed recently where RES proposed to use a combination of stream restoration and floodplain restoration to meet sediment removal quantities. The selected locations had unstable and incised channels due to stormwater impacts and historic land uses. The proposed floodplain restorations were designed to be self-sustaining, highly functioning, floodplain systems that will reduce pollutant loadings by stabilizing eroded streambanks, reconnecting of channel restoration, floodplain grading, subsurface grade control structures, and habitat structural improvements to restore channel pattern and the floodplain. Overall, the stream complex is designed to have low bank heights and low-very low streambank erosion rates. Of the three projects completed by RES, Veterans Park – North & South received roughly 2,477 LF, Shutt Mill Park received approximately 913 LF, and Pine Apartments Complex received roughly 1,459 LF of restorations. Currently, these projects are being monitored, by RES, for additional pounds of sediment removed which will be confirmed to the PCC after one year of monitoring.

Stonebridge Apartments was also completed within the current permit term, which restored 1800 feet of Asylum Run. This stretch was previously identified as a top 5 contributor of pollutants to

Paxton Creek. The project resolved the excessive erosion occurring by reconstructing the streambed and restoring the surrounding floodplain area.

PCC and PennDOT bid, with Swatara Township, on another round of projects. The second contract was awarded to RES. The Swatara Township project is not included towards the PCC's sediment removal amount. RES has submitted the Conceptual PRP for approval outlining the PPC project, the McIntosh BMP on Paxton Creek. The BMP is located within the Wildwood Lake sub-watershed of the Paxton Creek Watershed. Land cover within the proposed BMP limits includes lawn, degraded wetland, and shrubland. The public parcel was donated to the Township and a portion is being used as a public park. The watercourses proposed for restoration as part of this BMP include Paxton Creek and one (1) UNT to Paxton Creek. The 2,310 LF of channels within the BMP originate from underneath bridges along McIntosh Road outside of the BMP limits. The channels being proposed for restoration have high vertical banks up to 5 feet, limited bank protection, and they exhibit high levels of degradation due to stormwater runoff from the substantial urbanized drainage area. The side tributary draining from outside of the BMP limits also exhibits impairment and contributes sediment to the watershed. RES proposes to utilize floodplain restoration for the majority of the reaches to maximize sediment reduction potential. Table 8 below provides the estimated total sediment reduction.

Conclusion

For the current reporting period ending on August 1, 2024, the Municipal Entities are taking credit for projects currently in the operation phase. Table 8 summarizes the status of all projects in the design, construction, and operation phases. When completed and in operation, these projects are projected to achieve load reduction goals prior to the end of the current permit term.

Joint Planning Area Projects	JPRP BMP Name	JPRP Projection [Ib/yr]	2024 Updated Projection (Work in Progress) [lb/yr]	Capital Region Water Share (16%)	Lower Paxton Township Share (57%)	Susquehanna Township Share (27%)	Percent of Overall Reduction [% of Goal]
Veterans Park - North & South ⁽²⁾	BMP-04 and -05	247,250	544,003	87,040	310,082	146,881	32%
Pine Apartment Complex ⁽²⁾	BMP-11	166,750	138,345	22,135	78,857	37,353	8%
Shutt Mill Rd/Walker Mill Rd ⁽²⁾	BMP-06	505,171	130,437	20,870	74,349	35,218	8%
Stonebridge Apartment ⁽²⁾	BMP-02	166,750	166,750	26,680	95,048	45,023	10%
CRW Street Sweeping ⁽²⁾	BMP-15	29,864	29,864	4,778	17,022	8,063	2%
Cloverly Heights GSI ⁽²⁾	N/A	N/A	91	15	52	25	0.01%
2022 PennDOT Contract (RES) ⁽¹⁾	N/A	N/A	697,378	111,580	397,505	188,292	41%
CRW CSS Rehab & Optimization(2)	BMP-16	355,000	12,000	1,920	6,840	3,240	0.7%
	Total Reduction		1,718,868	275,019	979,755	464,094	101%
Plar	nning Area Goal (JPF	P, Section F)	1,694,398	271,104	965,807	457,487	
Re	emaining Reduction	(Excess Lbs.)	(24,470)	(3,915)	(13,948)	(6,607)	-1%

Table 8. Completed and In Progress JPRP Projects

(1) Design or construction in progress (subject to PADEP approval)

(2) Complete and in operation